

AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

MAY 1, 1955



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The Nurseryman's Forte: To Make America More Beautiful and Fruitful

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Forms for the May 15 issue will close Friday, April 29.

Forms for the June 1 issue will close Friday, May 13.

Mail copy to arrive at Chicago by these dates — no later!

NATION-WIDE PUBLICITY MEANS *MORE PROFITS for YOU!*



(left) Paul Howard, President of Howards of Hemet and (right) Bob Lindquist, Vice-president and head of rose research department are shown measuring the many hundreds of inches of publicity releases from newspapers and magazines throughout the nation.

To make certain the gardening public would get first hand information about Tiffany, test plants were sent to garden editors for growing and judging in their very own gardens.

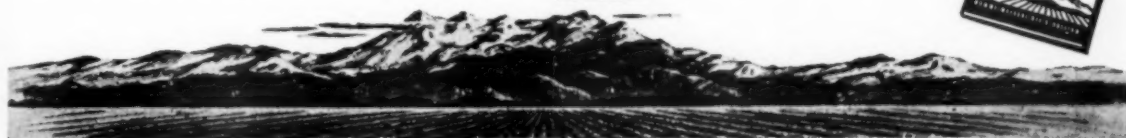
The result... Tiffany has received the equivalent to better than 50 pages of garden editorial praise, acclaiming it one of the finest hybrid tea roses to have won an AARS award.

It is said in many columns that when sufficient plants are available and the gardening public sees it growing, Tiffany will become the nation's most popular rose. This kind of publicity means demand for Tiffany roses and automatic profits for you!

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AMERICAN NURSERYMAN

F. R. KILNER
Editor and Publisher

Editorial

PROFITS AND COSTS

Comments of readers on the remarks on this page and in contributors' articles in reference to nursery costs reveal a general confusion of two questions, one, whether nursery prices are sufficiently high in comparison with costs and, second, whether nurserymen make an adequate profit on their business.

In one sense, the questions are the same because, unless prices were high enough, his earnings would not keep the nurseryman in business long—and there are some old firms continuing respectable operations in this field.

But, strictly speaking, the questions are different. Prices differ in their relation to cost in accordance with the type of operation. The top-quality, high-service operator expects, and obtains, a mark-up that seems extravagant to the low-price, large volume operator. In a discussion of mark-up the volume of business is a basic consideration—a fact too often forgotten in debate on the subject.

So far, the prime achievement of debate upon mark-up is to convince a larger number of nurserymen that they have no idea on what basis to calculate their mark-up—except the prices in some wholesale growers' catalogs—because they, themselves, do not know the cost of stock they grow. The dealer is in a different position because he knows his costs, for they are what he pays for his merchandise at wholesale.

The second question, whether nurserymen make an adequate profit, also depends upon the volume of sales. Given a sufficiency of orders, good management can make a profit, but when volume is low, the problem of the break-even point becomes acute. At the present time, circumstances are favorable, for demand continues strong. The large attendance at trade conventions, the new automobiles driven by the visitors and other signs point to current prosperity, indicating most nurserymen are making a profit.

Whether the present profit is one adequate to the volume of business and the efforts of the owner is another question. That, as well as the

question of mark-up, comes back to costs—costs of overhead items as well as costs of merchandise. While circumstances remain favorable, there is time to give study toward their ascertainment.

PLASTIC WRAPS

Readers of the American Nurseryman are the most familiar, of any group, with the progress made in wrapping plant shipments in polyethylene, because the results of research at Iowa State College have been reported in the columns as advances were made in the past year.

Now those reports are the basis for articles on the subject in garden magazines and other publications. Newspapers are currently reprinting a publicity release of the American Association of Nurserymen about the protection given plants shipped by mail through the use of this plastic material.

Other horticultural commodities are likely to be shipped or packaged in polyethylene, as are now the clumps of zoysia used to establish this new lawn grass.

The public is beginning to discuss the utility and advantages of this new plant wrap. From the articles that appeared in this magazine, nurserymen can discuss with their inquiring customers the effects and efficacy of polyethylene. While it is scarcely to be described as a miracle product, it will save the trade and public many dollars in transportation costs and, what is much more important, it will save a greater multiplicity of dollars in putting into the hands of the public plants of greater viability and in better condition than those which, on the average, have gone through the mail before.

KEEPING LOCAL TRADE

This is the time of year when operators of retail salesyards complain that customers who come in for their garden supplies tell them how much more they have paid for plants purchased from house-to-house salesmen of out-of-town firms than the stock is priced at the local salesyard.

Assuming that the facts are true—that the salesmen have obtained higher prices for stock that is of the same quality as that available locally—the salesmen should be credited for their sales ability as much as such buyers are blamed for their gulli-

bility. But is there not a further lesson in such incidents?

Inasmuch as the customers learned of the lower prices obtainable at the local salesyard only when they went there to buy supplies, is it not apparent that the local nurseryman shares responsibility by not making his wares and prices known to the public? If the customers did not know of his low prices before, his advertising has not reached them, provided he does any.

Under such circumstances, it seems that he could have made more sales by raising his prices enough to spend money for advertising his products, and still not charge as much as the out-of-town firms that employ the successful salesmen.

If you as a retailer care to consider the point, sit down at a season when you have adequate time and calculate just how many of the possible customers in your community can be counted upon to learn of your salesyard or landscape service. Aside from your customers and friends, are there not in your locality several times as many strangers, or at least prospective buyers not on your books, with whom you have made little or no effort to become acquainted, much less spend on each of them the amount of time which the salesman did to secure his high-priced order?

HOME DEMAND UNFILLED

Assertions that new homes are being erected faster than the market can absorb them are meeting strong denials.

Last month the Federal Reserve Bank of Chicago issued a statement, based on a recent survey, that the demand for new houses can be expected to continue unabated in the months ahead. Few signs of overbuilding were discerned.

The executive director of the National Association of Home Builders, at Washington, D. C., at the same time asserted that, in spite of the enormous volume of construction since World War II, neither the demand nor need for good housing have been satisfied. He cited a report by the federal reserve board showing a higher percentage of consumers planning to buy homes than at any other time since the board began its home market surveys in 1947.

On the basis of such predictions, nurserymen face a continuation of strong demand for home planting for some time to come.



Office, Garden Shop and Lath House Related to Form Complete Sales Center for Scarff Nursery

Scarff's Nursery Opens New Sales Center

As part of a broad long-time program of expansion, Scarff's Nursery last month opened a new sales center at the nursery grounds, one mile south of New Carlisle, O. Major additions to the display facilities include a garden store adjacent to the office and a modern lath house, as shown in the illustrations on this page. Completion of the structures represents the culmination of a long period of planning so that the buildings, plantings and displays would present a harmonious effect as well as lead to efficient operation.

A week-long opening for public inspection was scheduled by the nursery, March 27 to April 2. Unfortu-

nately, unpredictable March weather created difficulties for the period with a blizzard, three inches of snow, temperatures of 10 degrees below zero, icy roads and a 35-mile-per-hour gale. Nevertheless, 500 persons visited the nursery the first Sunday, and this was considered eminently successful in view of the conditions faced.

The new center is incorporated in general improvements, following modern trends, that have been under construction since May, 1954. The garden store holds displays of seeds, bulbs, house plants and gardening accessories, such as fertilizers, weed killers, spray materials, hose, pot-

tery and bird feeders. Shopping carts are provided for self-service in this department.

The attractive lath-shaded area, 60x120 feet, has concrete aisles and formal peat moss sales beds for this display of evergreens, holly, boxwood and similar plants. Thousands of rose and other plants have been established in pots and special containers to help gardeners prolong the planting season and assure growth even when subjects are set out in midsummer. Sales beds with gravel pathways between display these plants.

The production and propagation departments of the nursery have also



General View of Nursery Center That Makes Community Show Spot at New Carlisle, O.



Island Displays and Open Shelves Aid Self Service in Garden Shop

been undergoing a complete reorganization aimed at providing a larger and more efficient operating capacity. As a part of this program, five acres have been placed under irrigation for propagation purposes. To supply water for this and other needs of the nursery, a water system with sufficient capacity to supply the village of New Carlisle was installed last summer.

A new sales department has been created in the nursery storage area for fruit trees, berry plants and shrubs, where dormant plants can be kept to best advantage.

Scarff's Nursery was organized in 1889 by the late William N. Scarff and was built up by specializing in

small fruits and plants. Berry plants and fruit trees are still a specialty, but the nursery now produces a complete line of ornamentals and evergreens as well. The company currently operates 375 acres in the fertile Miami valley, employing 25 workers the year round and requiring 50 to 75 transient Texan laborers during peak seasons. Each year the nursery issues 50,000 fully illustrated catalogs, which are mailed nation-wide.

Associated with Howard Scarff, the present owner and general manager, are his two sons, James and William, the latter having just returned from a tour of duty with the marines. Mr. Scarff's daughter, Mrs.



Conservatory Atmosphere Given to Area for House Plant Sales

Carolyn Dickens, is assisting in the garden store.

FREEZE INJURY IN SOUTH

Varied reports from the different parts of the southeastern and southwestern states visited by freezing nights late in March present an uncertain picture as to the ultimate amount of damage.

Most striking was the sudden end to azalea bloom, then at its height, but probably the plants suffered little otherwise. Rose foliage in some places was frozen and wilted, so that the growth had to be cut back, but later flower production is expected to be normal. Gardenias were worse hit, and some had to be cut back to the ground.

Some foliage plants, like Burford holly and wax ligustrum, lost their leaves.

In some places peach and apple crops were ruined, but the Shenandoah valley of Virginia is reported unharmed.

Liners and small stock in pots were in doubtful condition, varying according to temperature, protection, type of plant and other factors. Worst was the uncertainty of some nurserymen in the affected area as to the utility of selling or planting stock that was apparently superficially damaged. The setback to homeowners' garden enthusiasm was temporarily discouraging, also.

So local was the variation in the effects of the unseasonable and sudden slump in temperature, and so few and uncertain are the reports so far, that accurate determination of the injury is at present impossible, and it is hoped that it will be neither serious nor enduring.

NEW INDIANA LAW

The past winter the Indiana state legislature passed a law regulating the operations of transient merchants and prescribing penalties for non-compliance with this law.

Henceforth anyone who brings nursery stock or any other merchandise from another state into Indiana and attempts to sell it on street corners or on roadsides or tries to peddle it from house to house must buy a license from the auditor of the county in which he expects to sell the goods. In addition, he will be required to obtain a bond amounting to the total value of the merchandise which he expects to sell.

This law will help protect legitimate businessmen and the public. It was passed with the help of Indiana nurserymen.

MAY 1, 1955

More Flower Shows

Nurserymen Stage Gardens



Terrace Garden by Ludwig Hoffman Won Three Awards at Hartford

Dates of most of the larger flower and garden shows across the country this year were such as to permit reports of them to be included in the preceding issue of the American Nurseryman. Accounts can be found there of the exhibitions at Washington, D. C.; Boston, Mass.; Hollywood, Calif.; Des Moines, Cleveland and Philadelphia, on Long Island and in Virginia.

In this issue is reported the big annual show at Hartford, Conn. Additional notes on several of the other events amplify the parts played by nursery firms in reaching the large body of the public that attends the flower shows and represents much of the buying group of horticultural products.

Attendance at the ninth annual Connecticut flower show, staged at the West Hartford Armory, Hartford, March 10 to 16, was on a par with last year's record-breaking total. In the garden displays, emphasis was again placed on the value of good design and careful selection of basic plant material. The Connecticut Nurserymen's Association was among the several horticultural groups that sponsored the civic venture, along with the Hartford Times.

Focal point in the armory was a huge shadow box designed around the theme "Through the Garden Gate" by the Allied Florists' Association of Greater Hartford. Within the frame was a simulated stone wall, with a wrought-iron gate on the extreme right, which faced a small pool surrounded by several varieties of flowering orchid plants.

Farmington Nursery & Tree Expert Co., Canton, was awarded a silver trophy and a first prize for an informal terrace garden. A sunken flagstone terrace adjoined a small



Farmington Nursery's Terrace and Sunken Garden, Prize-winner at Hartford



Part of Redwood Forest Setting Staged by Germain's at California Show



Plant Patent Exhibit at the National Capital Flower and Garden Show

shed, with the areas connected by a curved stone path running through beds of daffodils, daphnes and crocuses. The colorful background planting was composed of dogwood, forsythias and azaleas against several large white pine trees.

Another informal theme for outdoor living was designed by Scott Nurseries & Greenhouses, Inc., Bloomfield. This trophy-winning garden featured a natural picket fence, which surrounded a raised washed pebble terrace. Beds of red and variegated tulips were planted at the base of the fence, with forsythias and flowering fruit trees on the right. Steps from the terrace led to a sunken lawn area, highlighted by plantings of pink and white hyacinths on each side of the steps. A white plank fence on the right side of the lawn area had a wistaria trained along the top plank, with masses of salmon-pink azaleas, deep purple tulips and narcissi in the foreground.

A departure from the informality of the garden designs was provided by the winning exhibit of Norman P. Gillette, West Simsbury, which featured a raised, semicircular, brick terrace. Pink azaleas and daffodils rimmed the terrace which overlooked a lawn, with beds of tulips at the base.

Patrissi Nurseries, West Hartford, was given a gold medal and a silver trophy for a natural garden setting, with a waterfall on the extreme right serving as a focal point. Low-growing broad-leaved evergreens, daphnes, grape hyacinths and tulips were grouped around the small pool at the base of the waterfall. A natural stone bench on the left overlooked an informal lawn, with yellow prim-

roses and red tulips alongside the bench.

A rustic artist's studio was the setting around which Blue Hills Nurseries, Inc., Simsbury, designed a natural garden that won a gold medal. The studio facade on the extreme right faced a waterfall, which fed a pool planted with native materials. Groupings of daffodils, narcissi, blue grape hyacinths and daphnes were on the right of a path that led from the studio to the pool.

The Ludwig Hoffman nursery, Bloomfield, was given a gold medal award and special silver trophy, in addition to the Connecticut Horticultural Society's trophy for the best horticultural exhibit in the show, for an informal terrace garden on three levels. A stone terrace was the first level of the garden, and it was fronted by planting of andromeda, ivy and other green plants and centered by a large dogwood tree. The second

level had a large magnolia on the left in a planting of broad-leaved evergreens, taxus and spiraeas. The third and upper level of the garden was centered by a large maple tree around which were planted clusters of primroses and daffodils, with a clump of deep salmon azaleas on the right.

A garden workshop area, surrounded by informal beds of forsythias, azaleas, tulips and daffodils, which faced the shed, won a first-prize certificate and silver trophy for the Mount Philips nursery firm, Weatogue.

Tow Path Gardens, West Hartford, designed a Persian garden that was awarded a first prize in addition to a silver trophy. The formality of the design was accentuated by native materials and ornamentation and proved to be one of the most popular exhibits in the show.

Spaulding Nurseries, Suffield, displayed a formal tulip garden, with a washed gravel path that led to a raised brick terrace. Beds on each side of the terrace were planted with daffodils and edged by light blue hyacinths. Large white azaleas formed a background for the terraced area. Beds on each side of the gravel walk were planted with tulips.

A breakfast terrace of red brick was created by Peter Cascio Nursery, West Hartford. A large brick wall that formed the background was topped with rectangular boxes of ivy and azaleas. Beds on each side of the terrace were planted with deep red azaleas.

For an Early American home, Brouwer-Hutt Nurseries, Inc., Glastonbury, designed an informal foundation planting. A semicircular gravel path led through the lawn area, with a heavy planting of broad



Department of Agriculture Depicts Marketing Service at Washington Show

Reservations Heavy for A. A. N. Convention

SIGN UP FOR TORONTO!

Over 900 hotel reservations have been made for the 80th annual convention of the American Association of Nurserymen, which will be held at Toronto, Ont., July 10 to 14, according to Richard P. White, executive secretary of the association. This substantial early registration is making rapid inroads into the accommodations that have been arranged for at the Royal York and King Edward hotels. Judging from the number of reservations already received Secretary White expects an attendance exceeding 1,000 and perhaps equaling the 75th anniversary record of 1,122.

Association members who are planning to attend the convention and have not yet made reservations are urged by Dr. White to do so at once. A small number of rooms are still available from the original allotment of 500 in the Royal York hotel, the convention headquarters. This is the largest hotel in the British empire, it is claimed; it has 1,200 rooms with bath.

Two floors are assigned to convention purposes. The A. A. N. will use one large ballroom for its trade show, another ballroom for its business sessions and the banquet room, which seats over 1,000 persons. In addition to these facilities, the association has reserved 10 small air-conditioned rooms for preconvention meetings and round-table discussions. Plans for these meetings have already been set up, rooms have been assigned and arrangements made for scheduled breakfast sessions. Almost all of the 47 exhibit booths have been assigned.

The expansive lobby of the Royal York will be given landscape decoration by members of the Canadian Association of Nurserymen. The hotel is located near Toronto's Union station and the city's main business, shopping and theater districts. It has a private tunnel to the Union station and the subway, an exclusive shopping center, library, bank, drugstore, barber shop, beauty parlor and private hospital and nursing service. Dining



Royal York Hotel, Toronto, Ont.

facilities include the Venetian cafe, the Imperial dining room, a sandwich shop and 14 private dining rooms. The hotel also features name bands for evening entertainment.

and narrow-leaved evergreens facing the doorway. A small stone path at the right of the door led to an informal planting of white pine and forsythias.

California Redwood Scene

The accompanying illustration of a feature display at the sixth annual California international flower show, at Hollywood Park, Calif., March 11 to 20, described at length in the preceding issue of the American Nurseryman, gives some indication of the reason why that event continues to attract the public in large numbers. Contributed by Germain's, whose president, Manfred Meyberg, was general chairman of the show, this exhibit was noncompetitive. It gave to the visitor a realistic impression of California's redwood forests in its use of more than 100 tree trunks extending from floor to roof and entirely covered with redwood bark, with branches hiding the ceiling. The ground carpeting was of wild grasses, native ferns, daisies and blooming

azaleas and rhododendrons. As shown in the illustration here, one side of the display was given to a waterfall. Elsewhere in the scene was a ranger's cabin, and deer and bears suggested the animal life of the forest. At intervals rain fell and thunder sounded in the setting, which had a backdrop depicting snow-capped mountains.

Patent Story at Capital

The 25th anniversary of the enactment of the plant patent laws was given recognition at the national capital flower and garden show, March 10 to 16, reported in the April 15 issue. A photograph of the commemorating display is reproduced here. Planning and staging of the exhibit were carried out through the efforts of three groups concerned. The National Association of Plant Patent Owners contributed the material and paid for the handling and forcing of the plants. The American Association of Nurserymen was responsible for the collection of the

material and advising in regard to the exhibit itself. All of the construction work, preparation of signs and arranging of the exhibit was performed by members of the Patent Office staff.

The central panel of the display held fresh fruits and nuts of patented varieties, while representative cut flowers and forced plants, including roses and broad-leaved evergreens, were arranged in garden formation at the sides. The portrait at the left is that of Secretary of Commerce Sinclair Weeks, and that at the right is of Commissioner of Patents Robert Watson. The Patent Office had an attendant present at all times to answer questions.

There was a paid attendance of more than 100,000 at the capital show this year, and it is reported that many visitors evidenced great interest in the plant patent display, President Eisenhower being one who was clocked for a 7-minute examination of the feature. Reproduction of

[Continued on page 62]

True Columnar Juniper

Reports and inquiries from a number of nurserymen and horticulturists indicate that over a period of 30-odd years considerable confusion has arisen concerning P. I. 18577, *Juniperus chinensis*. That number and name were assigned to a seed lot collected by F. N. Meyer in Hopeh province, China, in 1905. The seed was received at the U. S. D. A. plant introduction garden, Chico, Calif., and propagated. Records show that a wide distribution of both seedlings and cuttings resulting from that propagation began in 1908 and continued intermittently over the following 15 years. During that period approximately 4,000 plants were distributed to over 1,200 cooperators. A great variation in growth habit was found among the seedlings, and unfortunately the number 18577 was retained for all of the plants resulting from the original seed lot.

Some time prior to 1919 a selection of a columnar form was made from the seedlings at the Yarrow plant introduction field station, Rockville, Md. It was propagated and given the varietal name, *columnaris*. A description of the selection published in the multigraphed (printed) "Ninth Annual List of New Plant Introductions of the Office of Foreign Seed and Plant Intro-

duction," 1920-21, page 22. 1920, reads:

"18577 *Juniperus chinensis*. Chinese Juniper. var. *Columnaris*. [*] Collected by F. N. Meyer, agricultural explorer. A handsome ornamental juniper narrowly cylindrical in shape; of erect habit of growth, somewhat like that of the Chinese juniper but taller; and with dense glaucous or silvery green foliage. The needles are stiffer and longer than those of the Irish juniper."

In his "Bibliography of Cultivated Trees and Shrubs," Alfred Rehder does not list *J. chinensis* var. *columnaris* in the main text. Under additions and emendations in the same work he lists this name as a synonym of *J. sphaerica* var. *pseudo-mas* f. *columnaris* [F. N. Meyer] Van Melle. The latter, however, Rehder preceded with the remark that a further careful study should be left to a monographer of the group. In

*This was the first published description of the variety. The name should be cited as *Juniperus chinensis* var. *columnaris* Fairchild, since Fairchild's name, as signer of the introductory note is the only author's name associable with it. Van Melle's use of the authority "U. S. Dept. Agric." and Rehder's "[F. N. Meyer]" are both unacceptable. (Note contributed by S. F. Blake.)

the light of this discussion it is now proposed that the plant introduction number 18577 be reserved for *Juniperus chinensis* var. *columnaris* and applied only to the plant described above.

Plant Buyers' Guide lists *J. chinensis* as being available in "most nurseries." Although the variety *columnaris* is not mentioned as such, several names contain the word "Columnar" and other similar descriptive adjectives. As previously pointed out, this species gives rise to many forms when grown from seeds. However, if the true horticultural variety *columnaris* with its cylindrical form and glaucous foliage is desired, it is recommended that the plant be obtained from a source that can be traced to the original selection made from P. I. No. 18577.

H. R. Fisher.

Plant Industry Station, Beltsville, Md.

FILLMORE TO DAYTON

Richard H. Fillmore, former propagator for the Arnold Arboretum and president of the Plant Propagators Society in 1954, joined the Siebenthaler Co., Dayton, O., as superintendent of propagation April 1. He is at the firm's Moraine nursery, six miles south of Dayton. In the propagating program he will concentrate upon the production of specialty items, consisting of better varieties of less common plants, such as hybrid lilacs on their own roots, euonymus, viburnums, cotoneasters, etc., from cuttings. He will also do some production from seeds, layering and grafting.

Mr. Fillmore is a fourth generation nurseryman and was almost continuously employed for eight years in a small nursery operated by his family at Centreville, Nova Scotia, now Fillmore's Valley Nurseries, Ltd. In 1936 he became foreman gardener for the Canadian Pacific railway and in 1939 curator of grounds and greenhouses at Acadia University, Wolfville, N. S., where he received his B. A. degree in 1945. Two years later, he received his M. S. degree at Cornell University and became propagator at the Arnold Arboretum. In 1952 he left the east to become manager of the propagation department of Lake's Shenandoah Nurseries, Shenandoah, Ia.

He is the elder son of Roscoe A. Fillmore, who operates Fillmore's Valley Nurseries, Ltd., Centreville, N. S., with his younger son, Frank, and who is the recent author of "Green Thumbs," the Canadian gardening book, reviewed on another page of this issue.



A 27-year-old screen of *Juniperus chinensis* var. *columnaris*, 18577, growing at the U. S. plant introduction garden, Glenn Dale, Md.

Pointers on Propagation

Production Procedures: A Review

By James S. Wells

The practical application of the theme that work is not necessarily a liability requires a careful review of all the normal procedures by which we usually propagate our plants, but because these vary to some extent from plant to plant and from place to place, this review must of necessity be a generalization.

In order to simplify matters, I propose to take three standard plants, a Pfitzer juniper cutting, a *Taxus cuspidata* spreading type cutting and a *Magnolia soulangeana* cutting to represent two types of plants normally propagated in the winter and one normally propagated from soft-wood summer cuttings. I shall refer to these from time to time to illustrate the comments recorded here. It is not my desire to follow through closely on the production of these three plants because that has already been done in these columns. They are, however, of sufficiently universal application to interest most people and can point up some of the arguments that I should like to present.

Timing

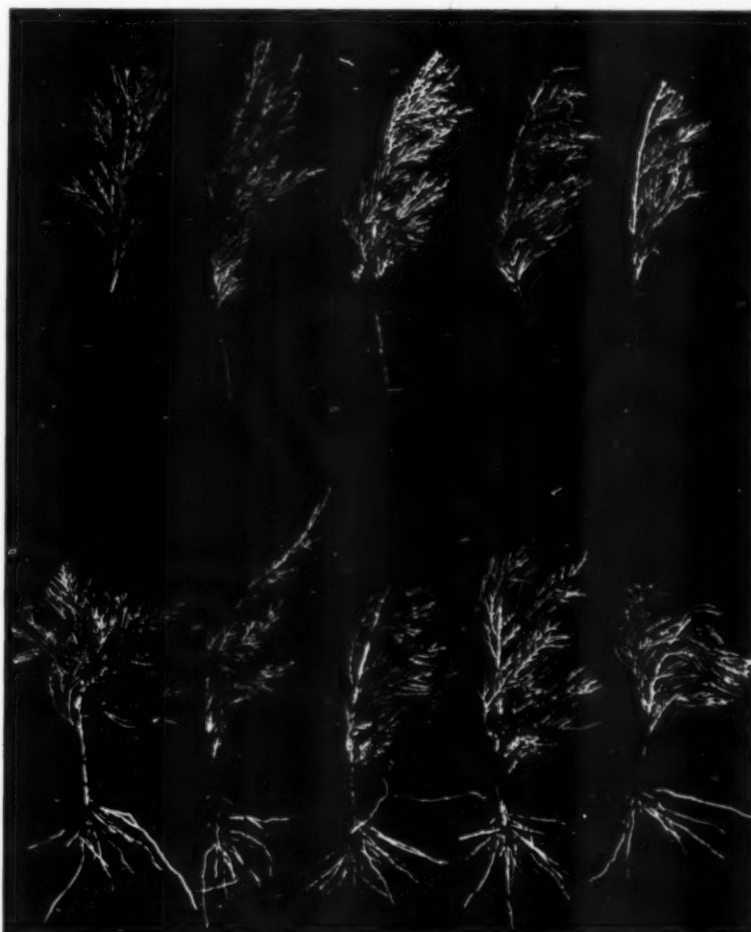
In this discussion, it must be borne in mind that we are proposing to carry through the required operations at the time and in such a manner to produce the best plant we can and with the highest percentages possible. As always, timing must come first. Now, unfortunately, there are many nurserymen who seem to think that propagation can be done almost at any time. I am sure you will have firsthand knowledge of a grower who in the pressure of spring work takes all the employees out of the greenhouses in order to ship his orders. If a wet day comes and the work is held up in the fields, everyone is sent to the greenhouses and there expected to make up for all the time lost, by producing a mass of cuttings in the two or three days when field work is impossible. It is quite surprising to me how many nurseries, both large and small, operate on this haphazard procedure, and I say quite emphatically that for optimum results it is hopeless. That growers who operate in this way continue to exist and presumably make a profit suggests either that they are charging too much for their plants or that they have discovered a method of propagation which we

all wish we had. It is also astonishing to me how tolerant the plants are to this kind of treatment. Were this not so, many growers would be out of business. Certain plants are tolerant of mistiming and misuse in their propagation and, if enough time is allowed for the cuttings to root in spite of and not because of the methods used, reasonable percentages in propagation can be expected.

This brings up a factor in connection with timing which is of some importance, and that is the desirability or otherwise of speed in the rooting and establishment of a new plant. There are many growers who are not in a hurry and who expect to take from nine to 12 months to root a batch of Pfitzer juniper cuttings.

Cuttings are taken in the autumn, inserted in frames, callused up slightly before winter comes on, root lightly the following spring, reroot in a normal manner through the summer and at the end of a full 12 months' period have become established with fairly good root systems. If you are not in a hurry, this is quite a sound procedure, and the more I consider the production of junipers from cuttings, the more I am inclined to believe that this somewhat slower method of propagation has much to recommend it.

Junipers in particular seem to be somewhat critical in their requirements for successful transplanting from the propagation bench to pots or bands and from them into the



Effect of wounding cuttings of Pfitzer juniper. All treated with a hormone. Top row not wounded, bottom row wounded.

field. The first movement from the original propagation area is the most critical one, and timing does seem to be of importance, particularly on newly rooted cuttings in the greenhouse bench, in reducing the inevitable losses to the minimum. But timing becomes of less importance in the movement of rooted cuttings when they have rooted slowly, have developed a normal secondary root system and are just about to start up into new growth again at the beginning of the next growing season. Movement of the cuttings at this time seems to reduce losses considerably. Therefore, in considering this question of timing, we must also consider the question of how quickly do we want to produce the cuttings. Taxus cuttings taken in late autumn, such as October or November, will normally root without producing any top growth, whereas cuttings taken after the turn of the year will usually develop top growth before they make roots. This is not desirable, but the top growth can be restricted on cuttings taken late in the year by also restricting the hours of daylight. It has been reported from Cornell University that cuttings taken at any time and restricted to a maximum of eight hours of daylight each day will not make top growth no matter how long they are held in the cutting bench.

In the case of the magnolia cuttings, the timing is again important in connection with the successful rooting of the cuttings in time to re-establish them in pots during the



Pot or band? An excellent taxus liner, well-established in a pot and ready to go to the field.

end of the current growing season and thus to bring them to a proper state for successful overwintering. I mention all these various aspects of timing to point up the suggestion that the work of the propagation section should not be dependent upon transient labor or surplus labor from other departments in the nursery, but should have its own labor force so that the cuttings can be taken at the right time for optimum results. This does not mean that cuttings taken at other times cannot be reasonably well rooted. Bear in mind, please, that in this discussion we are considering optimum methods for optimum results.



Pot or band? Rooted cuttings of *Thuja pyramidalis* well-established in $2\frac{1}{2} \times 2\frac{1}{2} \times 3$ -inch bands. Note complete absence of rotting on the wood veneer due to copper naphthenate treatment.

When we come to the actual procedure of taking cuttings, we may be tempted again to adopt short cuts, which are justified in some instances, but certainly are not justified in others. In most instances, it is desirable to make each cutting individually. A cutting to be properly made requires the rapid but considered judgment of the person making that cutting. The propagator has to decide with almost machine-like rapidity where to trim the base of the cutting, how many leaves to remove from the top of the cutting and how to trim side branches to produce a cutting of proper size for insertion in the benches.

Short cuts are acceptable in few instances. One that comes to mind is the making of single-stemmed cuttings from mature 1-year growth of taxus. If you have long shoots which were produced during the late summer and fall of the previous growing season, these can be gathered into bundles and cut, by using shears, into regular pieces about eight inches in length. It is not necessary to cut a taxus cutting beneath the node carefully, and on this type of growth, of course, there are no side branches to bother about. Cuttings of this kind can be gathered into bundles and cut up in this way and then passed on to other workers for stripping the base leaves and preparing them for insertion.

Generally speaking, however, cuttings have to be made individually, and this is certainly true of my other two examples, Pfitzer juniper and *Magnolia soulangeana*. The reduction of the leaves of *Magnolia soulangeana* by 50 per cent at the time the cuttings are taken is certainly justified to enable larger quantities to be inserted in the benches, but the mechanical cutting of large quantities of cuttings, as practiced by some growers, is, I believe, not conducive to the best results.

Producing a Good Root System

The purpose of making and inserting a cutting is, of course, to produce a good root system, and just what we mean by a good root system varies in each grower's mind. The importance, however, of a really well-balanced and constructed root system on the base of any cutting cannot be overestimated. It is, after all, the real basis upon which the future development of the plant depends, and the production of a good root system is perhaps of more importance than any other single factor in the successful survival and development of the young plant in all subsequent

[Continued on page 78]

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2 1/4 inch pots—minimum 25 per variety. Order now for immediate delivery.

	PRICE PER 100		PRICE PER 100
Abelia Edward Goucher	\$15.00	Juniperus chinensis columnaris . . .	\$25.00
Acer palmatum	15.00	(3" pots \$45.00)	
Althaea alba	17.50	Lagerstroemia indica rubra	17.50
Aucuba japonica variegata	17.50	Libocedrus decurrens	17.50
Buxus sempervirens	15.00	Photinia serrulata	15.00
Cedrus libani	17.50	Pinus sylvestris	15.00
Cotoneaster multiflora	25.00	Pittosporum tobira	12.00
Euonymus coloratus	17.50	Potentilla fruticosa Katherine Dykes .	17.50
Euonymus radicans upright	15.00	Prunus jacquemonti	15.00
Feijoa sellowiana	15.00	Syringa persica laciniata	15.00
Hypericum hidcote	20.00	Thuja occ. pyramidalis (3" pot only) .	35.00
		Thuja orientalis bakeri	17.50



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Abelia Grandiflora
Buxus Harlandi
Buxus Sempervirens
Cotoneaster Francheti
Cotoneaster Horizontalis
Elaeagnus Fruitlandi
Elaeagnus Simoni
Euonymus Coloratus
Euonymus Fortunei Erectus
 (small leaf)
Euonymus Patens
Gardenia Fortunei
Ilex Cornuta Burfordi
Ilex Cornuta Femina
Ilex Crenata Convexa
Ilex Crenata Rotundifolia
Ilex Opaca East Palatka
 (heavily sheared)
Ilex Vomitoria
 (well sheared)
Pride of Houston
Jasminum Floridum
Laurel Cherry
 (well sheared)
Ligustrum Lucidum
 (Griffing type)
Ligustrum Lucidum
 (Black Wax)
Ligustrum Lucidum Nanum
Loropetalum Texanum
Magnolia Glauca
Magnolia Grandiflora
Magnolia Soulangeana
Magnolia Soulangeana Nigra
Nandina Domestica
Photinia Serrulata

CONIFERS

Arborvitae, Or. Baker
Arborvitae, Or. Berckmans
 (Aurea Nana)
Arborvitae, Or. Blue Cone
 (very compact)
Arborvitae, Or. Bonita
Arborvitae, Or. Bonita Golden
Arborvitae, Or. Excelsa
Arborvitae, Or. Fruitland
 (Green Berckmans)

CONIFERS, cont.

Arborvitae, Or. Newark
Arborvitae, Occ. Globosa
Arborvitae, Occ. Pyramidalis
Arborvitae, Occ. Nigra
 (Dark Green)
Cedrus Deodara
Juniper, Andorra
Juniperus Excelsa Stricta
Juniperus Glauca Hetzi
Juniperus Glauca Hetzi
 (staked and sheared)
Juniperus Fastigiata
Juniperus Hibernica
 (Irish)
Juniperus Pfitzeriana
Juniperus Pfitzeriana Compacta
Juniper Pfitzeriana Aurea
Juniperus Sabina
Juniperus Sabina Vonehron
Juniperus Sabina Vonehron
 (staked and sheared)
Juniperus Scopulorum
Juniperus Sylvestris
 (Chinensis Femina)
Juniperus Virginiana Burki
Juniperus Virginiana Canaerti
Juniperus Virginiana Dundee
Juniperus Virginiana Glauca
Pinus Mughus
Pinus Nigra
 (Austrian Pine)
Pinus Sylvestris
 (Scotch Pine)

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Abelia Grandiflora
Gardenia Fortunei
Gardenia Mystery
Ilex Burfordi
Ilex Convexa
Ilex Rotundifolia
Ilex Helleri
Magnolia Grandiflora
Pyracantha Formosana
 (light)
Pyracantha Lalandi
 (light)
Crape Myrtle

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OBITUARY

Hugh M. Sherwood

Hugh M. Sherwood, 79, who with a son, Andrew W. Sherwood, had operated the Sherwood Nursery Co., Portland, Ore., for the past 30 years, died March 20, of a heart attack, at his cabin in the mountains near Brightwood. He had been active in the business, which he had founded with his son, until the day before his death.

Mr. Sherwood took much pleasure in the great outdoors and held a vast love for trees and plants, these feelings being an inspiration for those who worked with him. His enthusiasm and zeal went into the development of the business and into the growing and introducing of the many specialties of the firm. He was co-originator and introducer of a dozen or more outstanding evergreens. The firm, with propagating facilities in Portland and a large acreage outside the city, has specialized in shrubs indigenous to Oregon and in subjects difficult to grow, its chief business being wholesale distribution. Many in the trade doubtless remember the visit to the Sherwood establishment during the A. A. N. convention at Portland.

A native of Pennsylvania, where he attended normal school, Mr. Sherwood went to Oregon in 1905 and was graduated from Northwestern School of Law, at Portland, but did not take up practice. He served in Portland public schools for 35 years, being principal at Arleta school for 25 years, until his retirement 14 years ago, when he increased his activity in the nursery business. He was a past president of the Oregon Education Association, trustee and member of the building committee of Linfield College, at McMinnville, and treasurer of the Oregon State Baptist Convention.

Survivors include the widow, Tracy M.; a sister, Mrs. Lola Williams, Portland; three sons, Andrew W. and Dr. Henry, Portland, and Hugh M., Yachats; five daughters, and 14 grandchildren. The business will be continued as heretofore.

William J. Powell

William J. Powell, 52, former owner of the Green Arrow Nursery, Van Nuys, Calif., died March 11 at Burbank hospital, Burbank, Calif. A native of Mineral Wells, Tex., Mr. Powell had been a resident of Van Nuys since 1942. He was active in the California Association of Nurserymen and was a past president of

DECIDUOUS STOCK

SHRUBS

	Per 10	Per 100	Per 1000
BARBERRY, THUNBERGI			
2 to 2 1/2 ft.	\$4.50	\$40.00	
15 to 18 ins.	3.10	27.00	\$240.00
12 to 15 ins.	2.40	21.00	180.00
BUCKTHORN, DAHURIAN			
3 to 3 ft.	4.00		
18 to 24 ins.	2.90		
CORNUS GOLDEN TWIG			
15 to 24 ins.	4.00	35.00	
12 to 18 ins.	2.40	21.00	
COTONEASTER INTEGERRIMA			
18 to 24 ins.	7.50	70.00	
12 to 18 ins.	5.50	50.00	
CYDONIA JAPONICA			
18 to 24 ins.	3.80	33.00	300.00
12 to 18 ins.	2.90	25.00	
FORSYTHIA INTERMEDIA			
3 to 4 ft.	6.50	60.00	
2 to 3 ft.	5.50	50.00	450.00
18 to 24 ins.	4.40	38.50	350.00
HONEYSUCKLE, TATARIAN ROSEA, Pink			
4 to 5 ft.	7.00	65.00	
3 to 4 ft.	6.00	55.00	500.00
2 to 3 ft.	5.00	45.00	400.00
HONEYSUCKLE, TATARIAN RUBRA			
4 to 5 ft.	7.00	65.00	
3 to 4 ft.	6.00	55.00	500.00
2 to 3 ft.	5.00	45.00	400.00
HYDRANGEA P. G.			
12 to 18 ins.	3.20	28.00	
1 cane, 12 to 24 ins.	3.20	28.00	
LILAC, PERSIAN PURPLE			
3 to 4 ft.	6.50	60.00	550.00
FRENCH LILACS			
Alphonse Lavallee			
2 to 3 ft.	8.50	80.00	
Belle de Nancy			
2 to 3 ft.	8.50	80.00	
18 to 24 ins.	6.50	60.00	
12 to 18 ins.	4.50	40.00	
Charles Joly			
12 to 18 ins.	4.50	40.00	
Charles X			
18 to 24 ins.	6.50	60.00	
12 to 18 ins.	4.50	40.00	
Michel Buchner			
2 to 3 ft.	8.50	80.00	
2 to 3 ft., whips.	6.50	60.00	
18 to 24 ins.	6.50	60.00	
President Grey			
2 to 3 ft.	6.50	60.00	
18 to 24 ins.	6.50	60.00	
12 to 18 ins.	4.50	40.00	
Vauban			
2 to 3 ft.	8.50	80.00	
2 to 3 ft., whips.	6.50	60.00	
18 to 24 ins.	6.50	60.00	
PHILADELPHUS GLACIER			
2 to 3 ft.	5.00	45.00	
18 to 24 ins.	4.00	35.00	
PHILADELPHUS LEMOINEI			
12 to 18 ins.	3.20	28.00	
PRIVET, AMUR RIVER			
2 to 3 ft., 4 canes.	21.00	180.00	
18 to 24 ins., 3 canes.	16.50	140.00	
RHUS CANADENSIS			
3 to 4 ft.	8.00		
SPIRAEA ANTHONY WATERER			
15 to 18 ins.	5.00	45.00	
12 to 15 ins.	4.00	35.00	
SPIRAEA ARGUTA			
3 to 4 ft.	6.00		
2 to 3 ft.	5.00	45.00	
SPIRAEA BILLIARDI			
3 to 4 ft.	6.50	60.00	
2 to 3 ft.	5.00	45.00	400.00
18 to 24 ins.	4.00	35.00	300.00
SPIRAEA FROEBELI			
18 to 24 ins.	4.00	35.00	
15 to 18 ins.	3.50	30.00	
SPIRAEA THUNBERGI			
18 to 24 ins.	4.50	40.00	350.00
15 to 18 ins.	3.50	30.00	
SPIRAEA VANHOUTTEI			
3 to 4 ft.	5.00	45.00	
2 to 3 ft.	4.00	35.00	300.00
TAMARIX HISPIDA			
3 to 4 ft.	5.50	50.00	450.00
2 to 3 ft.	5.00	45.00	400.00

VIBURNUM AMERICANA (American Highbush Cranberry)	Per 10	Per 100	Per 1000
12 to 18 ins.	\$4.00	\$35.00	\$320.00
6 to 12 ins.	2.50	20.00	
VIBURNUM LANTANA			
12 to 18 ins.	3.50	30.00	
VIBURNUM LENTAGO			
2 to 3 ft.	5.50	50.00	
18 to 24 ins.	4.50	40.00	
12 to 18 ins.	3.50	30.00	
VIBURNUM OPULUS			
12 to 18 ins.	3.50	30.00	

FOREST SEEDLINGS

ASH, GREEN	Per 100	Per 1000
12 to 18 ins.	\$ 1.60	\$ 15.00
6 to 12 ins.	1.20	10.00
BLACK LOCUST		
4 to 5 ft.	6.50	60.00
3 to 4 ft.	4.50	40.00
18 to 24 ins.	2.40	20.00
BOX ELDER		
6 to 12 ins.	1.20	10.00
CARAGANA ARBORESCENS		
2 to 3 ft.	5.50	50.00
18 to 24 ins.	4.00	35.00
12 to 18 ins.	3.00	25.00
CHERRY, WILD BLACK		
2 to 3 ft.	5.50	50.00
18 to 24 ins.	4.00	35.00
12 to 18 ins.	2.90	25.00
CORNUS STOLONIFERA (Red Osier Dogwood)		
2 to 3 ft.	7.00	65.00
18 to 24 ins.	6.00	55.00
12 to 18 ins.	5.00	45.00
6 to 9 ins.	2.50	20.00
4 to 6 ins.	2.00	15.00
CORYLUS AMERICANA		
2 to 3 ft.	6.50	
CORNUS PANICULATA		
18 to 24 ins.	5.00	
12 to 18 ins.	4.00	
9 to 12 ins.	3.00	
6 to 12 ins.	2.50	
ELM, AMERICAN		
2 to 3 ft.	3.50	30.00
18 to 24 ins.	2.60	22.00
6 to 12 ins.	1.20	10.00
ELM, CHINESE		
2 to 3 ft.	4.50	40.00
18 to 24 ins.	2.90	25.00
6 to 12 ins.	1.20	10.00
HONEYSUCKLE		
12 to 18 ins.	7.50	65.00
6 to 9 ins.	3.50	30.00
LOCUST, THORNLESS HONEY		
Very fine stock, 100 per cent thornless, excellent lining- out and understock material.		
2 to 3 ft.	5.00	45.00
18 to 24 ins.	3.50	30.00
12 to 18 ins.	2.40	20.00
3/16-in. cal. and up understocks	2.00	18.00
OAK, BUR		
18 to 24 ins.	11.00	100.00
12 to 18 ins.	7.50	70.00
9 to 12 ins.	6.50	60.00
6 to 9 ins.	5.00	45.00
4 to 6 ins.	2.50	20.00
OAK, WHITE		
9 to 12 ins.	7.00	
OLIVE, RUSSIAN		
3 to 4 ft.	8.00	75.00
18 to 24 ins.	4.50	40.00
12 to 18 ins.	3.00	25.00
OSAGE ORANGE		
18 to 24 ins.	2.40	20.00
12 to 18 ins.	1.80	15.00
6 to 12 ins.	1.20	10.00
PHYSCARPUS OPULIFOLIUS		
18 to 24 ins.	6.00	55.00
6 to 12 ins.	3.50	30.00
POPLAR, LOMBARDY		
1 yr. from cuttings.	4.50	40.00

FOREST SEEDLINGS (Cont.)

PRUNUS BESSEYI (Western Sand Cherry)	Per 100	Per 1000
2 to 3 ft.	\$6.50	\$60.00
12 to 18 ins.	4.50	40.00
6 to 9 ins.	2.00	15.00
PRUNUS PADUS COMMUTATA (Mayday)		
12 to 18 ins.	5.50	50.00
18 to 24 ins.	4.00	35.00
4 to 6 ins.	3.00	25.00
RIBES ODORATUM		
2 to 3 ft.	6.50	60.00
18 to 24 ins.	5.50	45.00
9 to 12 ins.	3.50	30.00
6 to 9 ins.	3.00	25.00
4 to 6 ins.	2.00	15.00
ROSA MULTIFLORA, thorny		
1/2-in. cal. and up.	3.50	30.00
No. 1, 3/16 to 1/4-in. cal.	2.50	22.00
No. 2, 5/16 to 3/16-in. cal.	2.00	15.00
8 to 15 ins.	1.50	12.00
6 to 10 ins.	1.20	10.00
ROSA, HANSEN		
3/16 to 1/4-in. cal.	2.50	22.00
2/16 to 3/16-in. cal.	2.00	15.00
TAMARIX HISPIDA		
2-yr., cutbacks, 24 to 36 ins.	20.00	150.00
WALNUT, BLACK		
12 to 18 ins.	3.50	30.00
6 to 12 ins.	2.50	20.00
AMPELOPSIS VEITCHI (Boston Ivy)		
1-yr., approx. 2 1/2 to 16 ins. planter	3.50	30.00
SHADE TREES		
	Per 100	Per 1000
COTTONWOOD, MARILANDICA		
6 to 8 ft.	\$10.00	\$90.00
5 to 6 ft.	6.50	60.00
4 to 5 ft.	4.50	40.00
3 to 4 ft.	3.50	30.00
2 to 3 ft.	2.50	22.00
18 to 24 ins.	1.65	15.00
COTTONWOOD, MISSOURIENSIS		
1-yr. whips		
8 to 10 ft., whips.	10.00	90.00
5 to 6 ft., whips.	4.50	40.00
3 to 4 ft., whips.	2.50	22.00
2 to 3 ft., whips.	1.65	15.00
CRAB APPLE, RED SILVER		
5 to 6 ft.	15.00	135.00
4 to 5 ft.	12.00	110.00
3 to 4 ft.	8.50	80.00
ELM, AMERICAN		
1 1/2-in. cal.	33.00	
1 1/4-in. cal.	22.00	200.00
8 to 10 ft.	16.50	150.00
5 to 6 ft.	7.00	65.00
4 to 5 ft.	5.00	
3 to 4 ft.	3.00	25.00
LINDEN, AMERICAN		
3 to 4 ft.	6.50	
LINDEN, REDMOND		
4 to 5 ft.	11.00	90.00
3 to 4 ft.	8.50	75.00
2 to 3 ft.	6.00	50.00
POPLAR, LOMBARDY		
1 1/2-in. cal.	10.00	
1 1/4-in. cal.	7.00	65.00
8 to 10 ft.	6.00	55.00
6 to 8 ft.	4.40	38.50
4 to 5 ft.	2.50	21.00
3 to 4 ft.	2.00	17.00
2 to 3 ft.	1.50	10.00
PRUNUS JAPONICA		
3 to 4 ft.	9.00	
2 to 3 ft.	6.50	
PRUNUS TOMENTOSA (Nanking Cherry)		
4 to 5 ft.	11.00	
3 to 4 ft.	8.00	
PRUNUS TRILOBA		
4 to 5 ft.	14.00	
3 to 4 ft.	11.00	
REDBUD		
2 to 3 ft.	5.50	50.00

PLUMFIELD NURSERIES, INC.

P. O. Box 7

Phone 581

FREMONT, NEB.

NURSERY SUPPLY HEADQUARTERS

PEAT MOSS:

Canadian — clean paper wrap,
convenient for retail handling,
bale **\$3.75**

SPHAGNUM MOSS:

Standard-size bale **\$2.45**

REDWOOD TUBS:

12 ins.	\$2.50
14 ins.	3.00
16 ins.	3.50
18 ins., deep	4.75
18 ins., shallow	4.75
Coasters, complete	3.75

PATIO SCREENS

25-ft. roll, 6 ft. high

1 to 20 rolls	\$10.00 each
20 to 50 rolls	9.50 each
50 or more	9.00 each
— less 2% for cash —	

Patio screen is **NEW** and has a great future. Those handling will realize good profits — an active summer item — and an opportunity to sell plants and landscape jobs as a "tie-in". This is a natural for the nursery industry and will be promoted by our advertising assistance.

AYER-LINE CAN TOOLS:

Redhead can shear	\$ 6.75
3 for	17.50
6 for	30.36
12 for	54.00
Home Garden shear	4.95
Handy-Man Gripzit	2.90
2 for	5.30
Handy-Man multiple can punch, Foot lever only	40.50
Handle and foot lever	46.25

NURSERY PLANT CANS:

Robell, painted green
100 to 1000. **10c**, plus freight
1000 to 5000. **9½c**, plus freight
5000 to 10000. **8c**, plus freight
10000 or more. **6½c**, plus freight

NURSERY LATH SHADING:

Southland, green	\$10.00
Southland, red	9.50
(4 ft. wide; 50 ft. long)	
Creosote posts for lath construction	1.50
(12 ft. long; 3-inch diameter— tops)	

PRUNING SHEARS:

8-inch German	3.25
9½-inch Italian	2.25
Corona shears—wide selection	

W-W GRINDING SCREENS:

Soil shredders from **\$182.35** up
to **\$769.00**, F.O.B. Dallas.
Equipped with pulleys and motor,
ready to run!

All Items Listed Above Are
F.O.B. Dallas or Scottsville
(except where shown)

VERHALEN NURSERY
Company
SCOTTSVILLE • 12140 HARRY HINES BLVD.
TEXAS • DALLAS, TEXAS
Your Profits Grow in Verhalen Plants

the San Fernando Valley chapter. He is survived by his widow, Mrs. Regina Powell; his mother, Mrs. Margaret Powell; his brother, DuPre M. Powell, and two daughters.

Erich Carl Trauernicht

Erich Carl Trauernicht, Fort Worth, Tex., who had operated the Trauernicht Nursery Co. at his home for the past 35 years, died March 23 after an illness lasting three months. One of the earliest fruit tree patents was granted to Mr. Trauernicht, for a dwarf pomegranate that he perfected.

Born near Georgetown, Tex., Mr. Trauernicht spent his early years at Taylor, moving to Fort Worth in 1915. He was a member of the American Association of Nurserymen, of the Texas State Nurserymen's Association and of the Tarrant County Nurserymen's Association. He also belonged to the American Pomological Society, the American Rose Society and the American Horticultural Society, and was a charter member of the Riverside Civic League. His widow and a daughter survive.

Prof. Walter R. Ballard

Prof. Walter R. Ballard, 76, former landscape specialist at the extension service of the University of Maryland, College Park, died at his home at Hyattsville, Md., recently, after an illness of three months. A native of Bloomington, Ill., Mr. Ballard was associated with the Maryland extension service from 1920 to 1945, the year of his retirement.

FREEZE IN OKLAHOMA

A heavy freeze and record-breaking low temperature of 13 degrees, March 26, did serious damage to nursery stock in Oklahoma. This was the worst freeze ever recorded there for so late in the spring. A check with nurserymen in the city reveals that there was a heavy loss in many items of nursery stock.

Arborvitae were probably the hardest hit, and practically all in the vicinity of Oklahoma City were killed. Chinese holly and euonymus suffered heavy losses. Privet hedge was seriously damaged, and much of it killed. While it is a little early yet to determine the exact damage done to roses, most nurserymen said the rose loss is heavy; some were killed, but some probably will live. Broad-leaved evergreens were hard hit.

It is believed that most fruit trees will survive, but of course, the 1955 fruit crop is gone. Several nurserymen reported the loss of pear trees,

Saluting the 80th Annual Convention of the American Association of Nurserymen, July 10-14, Royal York Hotel, Toronto, Ontario, Canada.

Announcing

AMERICAN NURSERYMAN

A. A. N. CONVENTION NUMBER

to be published **JULY 1**

**Tell 9,500 Nurserymen
What YOU Have to Sell
In This Special
Year-Round Buyers'
Guide for Nurserymen**

While each issue of the *American Nurseryman* contains regular and seasonal offerings of stock, supplies, equipment and machinery, because of the numerous and diverse advertisements in the July 1 Special Convention Number, this issue has come to be regarded as a buying guide for the nursery industry. This year over 9,500 nurserymen will keep and refer to the Special Convention Number during the next 12 months for the many things needed to operate their businesses. Your advertisement will tell the entire industry what you have to offer.

Already 20 pages in full color are on the presses for this important issue which has varied between 160 and 196 pages in the past several years. With the heavy demand for black-and-white advertisements already indicated, the 1955 Special Convention Number promises to pass last year's outstanding issue.

JUNE 9 is the DEADLINE
for receiving copy instructions

RESERVE YOUR SPACE NOW — TODAY —→

AMERICAN NURSERYMAN

343 S. Dearborn St., Chicago 4, Ill.

20 MILLION TREES A YEAR!



MUSSER TREES GROW

Good heredity, careful selection of seed and scientific culture in the nursery assure superior stock. **Heavy Roots — Sturdy Tops,** assure rapid growth.



Comparison of MUSSER seedling (at right of picture) with an ordinary seedling.

SEEDLINGS AND TRANSPLANTS AT LOW QUANTITY PRICE

	Per 100	Per 1000		Per 100	Per 1000
• RED BARBERRY			• COLORADO BLUE SPRUCE		
2-yr., S., 4 to 10 ins. \$10.00	\$50.00		2-yr., S., 3 to 6 ins. \$ 7.00	\$35.00	
3-yr., S., 8 to 15 ins. 16.00	80.00		3-yr., S., 5 to 10 ins. 12.00	60.00	
• CEDRUS ATLANTICA GLAUCA			(Very superior stock)		
2-yr., S., 6 to 12 ins. 15.00	100.00		4-yr., T., 6 to 10 ins. 30.00	150.00	
3-yr., S., 12 to 24 ins. 30.00	.....		• TAXUS CUSPIDATA		
• WHITE DOGWOOD			1-yr., T., 5 to 6 ins. 20.00	150.00	
1-yr., S., 6 to 9 ins.	45.00		• TAXUS CUSPIDATA CAPITATA		
2-yr., S., 10 to 16 ins.	75.00		2-yr., S. (2-0),		
2-yr., S., 16 to 24 ins.	90.00		4 to 7 ins.	15.00	125.00
• NORWAY MAPLE			3-yr., S. (3-0),		
1-yr., S., 6 to 10 ins. 8.00	40.00		8 to 12 ins.	30.00	250.00
2-yr., S., 10 to 15 ins. 14.00	70.00		• TAXUS HICKSI		
• MUGHO PINE (True Dwarf)			1-yr., T., 5 to 7 ins. 20.00	175.00	
3-yr., S., 4 to 6 ins. 7.00	35.00		• TAXUS HUNNEWELLIANA		
5-yr., T., 6 to 12 ins. 16.00	80.00		1-yr., T., 5 to 7 ins. 25.00	200.00	

**Write
now!**

Also other Evergreens — Hardwood Seedlings —
Shade and Nut Trees — Rhododendron and Azaleas

For complete catalog and wholesale planting list.
Ask for our famous Christmas Tree Growers Guide.

MUSSER FORESTS, Inc.

Box 1E-E
INDIANA, PA.

but most of them said peach trees will come out in most instances.

Before the severe freeze nurserymen in the vicinity were progressing well with spring work. Demand had been exceptionally good, and except for some broad-leaved species, the supply of stock was ample. Suburban developments in all directions continue, and stock and services of nurserymen were badly needed for those building sites. B. H. P.

FREEZE AT TULSA, OKLA.

Unusual weather conditions have caused heavy losses in plants to nurserymen and homeowners. Two weeks of abnormally warm weather in March, reaching as high as 91 degrees on one occasion, brought forth much new growth. Freezing weather followed, the temperature going down to 15 degrees or lower on several nights. Most of the broad-leaved evergreens, Chinese arborvitae, burfordi hollies, abelias, wax-leaf ligustrums, Juniperus excelsa stricta and some other conifers were either badly damaged or killed. Evaluation of the damage is still somewhat difficult, as this situation is unprecedented here. Many of these plants probably can be regrown and made salable in a year or two, but many others appear to be a total loss.

Moisture conditions have been benefited by spring rains; in soils with deep tilth and located in low places, the subsoil is at least partially moist down to the levels of deep moisture in the earth. Upland areas are not so fortunate; reports indicate surface moisture at not more than 18 inches to two feet in some places. Nurserymen are disturbed because householders are becoming discouraged with planting because of trying to save their trees and shrubs through three years of drought, only to have them caught in the spring freeze. Spring business started out well, but has been checked by rainy week-ends and the freeze.

News Notes

Henry Bresser, prominent nurseryman and florist of Muskogee, died April 8 at the age of 92.

Mario Sanseverino, of O. K. Gardens, returned from a recent buying trip to Arkansas and Louisiana; he found that damage from freezing weather was widespread.

C. D. Rule, American Landscape Nursery, has completed a new 5-room house at the site of the nursery.

Terry's Experimental Farm is undergoing a number of changes. Mr. and Mrs. Terry are moving to the farm, to live there the year around. They are moving their office from



liners that live TRADE MARK

Potted Liners For Field Planting or in Containers

BETTER STANDS. Pot plants have a better root system and stand the shock of transplanting better than bare-root stock.

BETTER GROWTH. Pot plants start off quicker and make a better first season growth; thus they are ready to market sooner.

YOU CAN PLANT LATER. Pot plants can safely be set out in the field much later than bare-root stock. This gives you more planting time in your busy season. With irrigation you can plant nearly all summer.

CONTAINERS. For growing in containers, potted liners give best results. You will get a better stand and have plants ready to market sooner than with bare-root liners.

SHRUBS

	Each Per 100	Each Per 1000
BERBERIS MENTORENSIS (Barberry)		
8000 2 1/4-in. pots	\$0.25	\$0.20
CALICARPA DICHOTOMA		
600 2-in. pots	.20	.17
COTONEASTER DIVARICATA		
1000 2-in. pots	.20	.17
DEUTZIA CORYMBOSA		
1000 2 1/2-in. pots	.17	.15
EUONYMUS EUROPAEUS		
600 2-in. pots	.17	.15
FORSYTHIA FORTUNEI		
1800 2-in. pots	.17	.15
FORSYTHIA INTERMEDIA		
SPECTABILIS		
3000 2-in. pots	.17	.15
FORSYTHIA LYNWOOD GOLD		
500 2-in. pots	.22	.20
FORSYTHIA SPRING GLORY		
3000 2-in. pots	.20	.17
HYPERICUM KALMIANUM		
1000 2-in. pots	.20	.17
KOLKWTZIA AMABILIS		
3500 2-in. pots	.20	.17
LONICERA KOROLKOWI		
FLORIBUNDA		
1500 2-in. pots	.20	.17
PHYSOCARPUS OPULIFOLIUS		
NANUS		
900 2-in. pots	.17	.15
SALIX DISCOLOR		
3500 2 1/2-in. pots	.17	.15
SPIRAEA ANTHONY WATERER		
5000 2-in. pots	.20	.17
SPIRAEA JAPONICA COCCINEA		
4000 2-in. pots	.25	.20
SPIRAEA REEVESIANA , double		
500 2-in. pots	.25	.20
SPIRAEA REEVESIANA , single		
900 2-in. pots	.17	.15
VIBURNUM OPULUS		
1200 2 1/4-in. pots	.17	.15
VIBURNUM OPULUS STERILE		
3000 2 1/4-in. pots	.17	.15

VINES

	Each Per 100	Each Per 1000
CELASTRUS SCANDENS		
(Bittersweet)		
900 2-in. pots	\$0.17	\$0.15
LONICERA JAPONICA HALLIANA		
2500 2 1/2-in. pots	.19	.16
1000 2 1/4-in. pots	.16	.14
4000 2-in. pots	.15	.12
LONICERA JAPONICA		
(Purple-leaved)		
1750 2-in. pots	.17	.15
LONICERA SEMPERVIRENS		
MAGNIFICA		
3000 2-in. pots	.20	.17
LONICERA SEMPERVIRENS		
Yellow		
900 2-in. pots	.17	.15
LONICERA TELLMANNIANA		
(Red gold Honeysuckle)		
1200 2-in. pots	.20	.17

EVERGREENS

	Each Per 100	Each Per 1000
JUNIPERUS GLAUCA HETZI		
800 2 1/4-in. pots	\$0.20	\$0.17
JUNIPERUS PFITZERIANA		
COMPACTA		
300 2 1/2-in. pots, 2-yr.	.30	.25
250 2 1/4-in. pots, 1-yr.	.25	.20
150 2-in. pots, 1-yr.	.20	.17
JUNIPERUS SABINA		
2000 2 1/4-in. pots	.20	.17
JUNIPERUS SABINA		
TAMARISCIFOLIA		
1000 2 1/4-in. pots	.20	.17
JUNIPERUS SABINA VONEHRON		
2000 2 1/2-in. pots, 2-yr.	.30	.25
6000 2 1/4-in. pots	.20	.17
800 2-in. pots	.17	.15

BROAD-LEAVED EVERGREENS

	Each Per 100	Each Per 1000
EUONYMUS COLORATUS ERECTUS		
200 3-in. pots	\$0.25	\$0.20
150 2 1/2-in. pots	.17	.15
400 2-in. pots	.15	.12
EUONYMUS FORTUNEI COLORATUS		
1000 3-in. pots	.30	.25
1500 2-in. pots	.17	.15
EUONYMUS FORTUNEI MINIMUS		
1200 3-in. pots	.30	.25
800 2-in. pots	.25	.20
EUONYMUS FORTUNEI UPRIGHT		
500 2-in. pots	.25	.20
EUONYMUS PATENS , large-leaved		
3500 2-in. pots	.17	.15
EUONYMUS PATENS , small-leaved		
8000 2-in. pots	.25	.20
PYRACANTHA COCCINEA		
1000 2-in. pots	.17	.15
PYRACANTHA PAUCIFLORA		
1000 2-in. pots	.17	.15

EVERGREEN CRAFTS

50c each in lots of 300 or more.
55c each in lots of less than 300
Minimum order: 25 of any one variety.

JUNIPERS

(On Red Cedar Understock)
150 *Chinensis columnaris*, green
800 *Chinensis keteleeri*
250 *Scopulorum, Asjae* (blue columnar)
150 *Scopulorum, Chandler*
400 *Scopulorum Platinum*—\$1.00
900 *Virginiana canaerti*
600 *Virginiana cupressifolia*

THE WILLIS NURSERY CO.

"Your Wholesale Nurserymen"

OTTAWA, KANSAS

631 North Main street to the farm and are building a large structure on the front of the property to house the offices and an antique shop. The Tulsa Wire Products Co., another project of theirs, will also be moved to the farm. The highway in front of the property is to be widened, which will take away part of the land now planted to the choice iris plants which they sell.

Matthews Landscape Nursery has built an addition to the lath house,

60x75 feet in size. It is made on a pipe frame, with a top of redwood. The firm is also constructing a frame shed, covered with aluminum, along the north side of the lath house.

Bresser's Flowers of Tulsa has added a nursery department; Bill Meek is the nurseryman in charge.

The Brady Nursery & Landscape Service has built a lath house, 25x30 feet. Half an acre has been added to the sales lot, which is now one and three-quarters acres. R. W. C.

GUEST speakers for the Katherine Kitchen program in the Bee building, Modesto, Calif., March 2 were E. J. Merz, executive secretary of the California Association of Nurserymen, and Fred Fick, treasurer, both of Sacramento. Miss Kitchen, home economist for the Bee building and radio station KBEE, presented the two speakers in an hour and a half program devoted to discussion and demonstrations of practical gardening.



CHARLIE CHESTNUT



FROM DAWN TO DARK

The nurseryman's life I've pondered

At the end of a long hard day;
Of the ways to make a living,
We choose the hard rugged way.
From "The Ballads of a Bushman,"
by P. Tunia

One evening last April we loaded the Chevy truck with a full load of stuff for Lake Park. "We'll leave early in the morning, Chas.," Emil says, "It'll be a full day's job."

"O.K.," I says.

6:30 A. M. — Phone call from Jerry's wife (he is our truck driver and straw boss). "Jerry will be late, he can't get the car started," she says. It happens on the average of once a week (Jerry's car is a \$35.00 1936 model equipped with \$50.00 worth of gadgets including a squirrel's tail and a row of dodads from the carnival hanging down from the top of the windshield).

6:45 A. M. — "That front tire is down again, Emil," I says, "that patch didn't hold. # % @ + + * - I," Emil says, "take off the spare from my car, it'll be a little smaller but we can't wait to patch the tire again."

6:50 A. M. — Old Bob is standing by the barn door sharpening his hoe. Old Bob is a retired railroad section foreman, about 70, with one eye. He stands 6 ft. 6 and weighs 110 lbs. right after dinner. He comes on the bus which runs only on the hour, so Bob is generally standing around from 6 to 7. He always sharpens his hoe when nothing else is in sight, although we don't start using the hoes until along in June.

7:00 A. M. — Freddie's mother called. Wants to know where Jerry is. Freddie is a deaf and dumb boy who works for Emil and who rides to work with Jerry.

7:01 A. M. — Phone call from Emma Grundy. Mrs. Grundy is 94 years old, very hard of hearing and with teeth that jiggle around so it is always just a wild guess what she is asking about. This morning she wants a dozen glad bulbs brought down right away because her man comes today. It is a good 5 to 1 bet when we deliver the bulbs it is dahlias she wants instead of glads, which takes another trip.

7:05 A. M. — "Bob, you better check the load and see if all the tools

are on," I says, "be sure we got the crow bar."

"It ain't on the load and it ain't in the shed either," says Bob. "Last time I seen it was down to that job on that street up by the Garfield school last Saturday," Bob says, "we must of left it there."

7:30 A. M. — "Where is Jerry?" Emil says. "Everytime we are in a hurry he don't show up, I am going to dock him for a hour. Now let's see that list of stock, Chas. There's 7 Norway Spruce on that order, I only see 6 on the truck," he says.

"6 is all you said yesterday," I says. "You and Bob go out and dig another one, Chas., and hurry it up. It will be the middle of the forenoon before we get there."

7:30 A. M. — Mrs. Wood's garden-er come in with a crooked willow in the car.

"The madam says this aint no

good, she wants me to bring a good one," he says.

"All willows is crooked," Emil says, "we don't turn these out of a mold and besides we can't dig anything now, we are late on starting on a planting job."

"I got to have it now as she aint in a good mood this morning, Emil," he says. "You better get it or she will send back all the stuff she got yesterday."

"O.K.," Emil says. "Dig her one, Chas. Now wait a minute, take one off the truck and we will use this one instead. We got to get going."

7:45 A. M. — Jerry and Freddie come in a cloud of dust and got a dirty look from Emil. By his series of signs Freddie wants to know if we are going to take the lunch buckets. This is always of first consideration with Freddie, and his lunch bucket is the size of a small packing case.

NORTHERN-GROWN STOCK

LANDSCAPE-SIZE SHRUBS		
	Per 10	Per 100
<i>Clethra alnifolia</i>		
18 to 24 ins., clumps.....	\$4.00	\$35.00
2 to 3 ft., clumps.....	6.00	50.00
3 to 4 ft., clumps.....	8.00	70.00
<i>Ilex verticillata</i>		
2 to 3 ft., clumps.....	6.00	50.00
3 to 4 ft., clumps.....	7.00	60.00
<i>Viburnum cassinoides</i>		
2 to 3 ft., clumps.....	5.00	40.00
3 to 4 ft., clumps.....	7.00	60.00
<i>Viburnum dentatum</i>		
2 to 3 ft., clumps.....	4.50	35.00
3 to 4 ft., clumps.....	6.00	50.00

SUGAR MAPLES		
	Unit price in quantities	
	10 to 49	50 to 250
<i>Acer saccharum</i>		
1 1/4 to 1 3/4 in. cal.....	\$4.00	\$3.50
1 3/4 to 2 in. cal.....	6.00	5.00
2 to 2 1/2 in. cal.....	7.00	6.00
2 1/2 to 3 in. cal.....	9.00	8.00
3 to 3 1/2 in. cal.....	12.00	11.00

CLUMP BIRCH		
	Per 10	Per 100
<i>Paper Birch</i>		
4 to 6 ft.,		
3 stems and up.....	\$30.00	.....
6 to 8 ft.,		
2 stems and up.....	40.00	.....
<i>Gray Birch</i>		
4 to 6 ft.,		
3 to 6 stems.....	25.00	\$200.00
6 to 8 ft.,		
3 to 6 stems.....	35.00	250.00

PAPER BIRCH		
	Per 100	Per 1000
<i>Betula papyrifera</i>		
2 to 3 ft.....	\$ 8.00	\$ 70.00
3 to 4 ft.....	25.00	200.00
4 to 6 ft.....	40.00	300.00
6 to 8 ft.....	90.00	.....

LINING-OUT STOCK		
<i>Acer saccharum</i>		
2 to 3 ft.....	12.00	100.00
3 to 4 ft.....	30.00	250.00
4 to 6 ft.....	60.00	500.00
<i>Clethra alnifolia</i>		
6 to 18 ins.....	7.00	60.00
<i>Ilex verticillata</i>		
1 to 2 ft.....	10.00	90.00
<i>Syringa vulgaris</i>		
1 to 2 ft.....	7.00	60.00
<i>Viburnum acerifolium</i>		
6 to 18 ins.....	8.00	70.00
<i>Viburnum cassinoides</i>		
1 to 2 ft.....	8.00	70.00
<i>Viburnum dentatum</i>		
1 to 2 ft.....	8.00	70.00

HEMLOCK TRANSPLANTS		
<i>Tsuga canadensis</i>		
4 to 8 ins., trans., 2-2.	15.00	120.00

HEMLOCK SEEDLINGS		
<i>Tsuga canadensis</i>		
6 to 9 ins.....	4.00	20.00
9 to 12 ins.....	6.00	45.00
12 to 18 ins.....	8.00	65.00

All stock is first-quality collected material except as otherwise noted. Send for complete wholesale list of Hardy Native Ferns, Lilies, Orchids, Wild Flowers, Trees, Shrubs and Evergreens. We do not have Japanese beetle.

ISAAC LANGLEY WILLIAMS

P. O. Box 352

EXETER, N. H.

EVERGREENS

Quality seedlings and transplants for Christmas trees and forest planting. Write for spring, 1955, price list.

CLEARFIELD BITUMINOUS COAL CORP.
Department of Forests
INDIANA, Indiana Co., PA.

POTTED LINERS SEEDLINGS TRANSPLANTS

Catalog on request.

HEASLEY'S NURSERIES
Freeport Rd. BUTLER, PA.

RA·PID·GRO

The Double Profit Plant Food



Rose on left was Ra-Pid-Gro fed.



This dispensing display sells Ra-Pid-Gro for you!

PROFIT NO. 1

USE IT!

Nurserymen who *use* Ra-Pid-Gro know well that it produces:

1. Healthier stock.
2. More salable stock.
3. Far fewer replacements.
4. Properly timed blooms.

PROFIT NO. 2

SELL IT!

Nurserymen who *sell* Ra-Pid-Gro know well that it produces:

1. Satisfied customers.
2. Repeat business.
3. Greater sales volume.
4. Extra profit.

USE RA-PID-GRO — AND SELL IT FOR SATISFIED CUSTOMERS

Imitation is the Sincerest Flattery.

They say money is the root of all evil
and it is sometimes the reason for substitution.

Stock up on Ra-Pid-Gro NOW!

ANALYSIS 23-21-17

RA·PID·GRO

CORP., DANSVILLE, N. Y.

THE MIRACLE LIQUID PLANT FOOD

Grafted Stock for Spring, 1955, Delivery

Grafts are normally ready for shipment after April 15. Since there is a possibility of damage by late spring frost, kindly give a shipping date when you feel it is safe to plant without frost injury.

	Per 10	Per 100
<i>Acer palmatum atropurpureum</i>	\$7.50	\$65.00
<i>Cornus kousa chinensis</i>	6.00	50.00
<i>Juniperus chinensis columnaris glauca</i>	6.00	50.00
<i>Juniperus chinensis columnaris viridis</i>	6.00	50.00
<i>Juniperus chinensis keteleeri</i>	6.00	50.00
<i>Juniperus chinensis neaboriensis</i>	6.00	50.00
<i>Juniperus chinensis sargentii</i>	6.00	50.00
<i>Juniperus chinensis sargentii glauca</i>	6.00	50.00
<i>Juniperus sabina vonehron</i>	6.00	50.00
<i>Juniperus squamata meyeri</i>	6.00	50.00
<i>Juniperus virginiana burki</i>	6.00	50.00
<i>Juniperus virginiana canaerti</i>	6.00	50.00
<i>Juniperus virginiana elegantissima</i>	6.00	50.00
<i>Juniperus virginiana glauca</i>	6.00	50.00
<i>Juniperus virginiana kosteriana</i>	6.00	50.00
<i>Juniperus virginiana pyramidiformis hillii</i>	6.00	50.00
<i>Juniperus virginiana schottii</i>	6.00	50.00
<i>Parrotia persica</i>	6.50	60.00
* <i>Pinus caembra</i>	6.50	55.00
<i>Thuja occidentalis douglasii spiralis</i>	5.00	40.00
<i>Thuja occidentalis elegantissima</i>	5.00	40.00
<i>Thuja occidentalis lutea George Peabody</i>	5.00	40.00
<i>Thuja occidentalis lutea Mary Corey</i>	5.00	40.00
<i>Thuja occidentalis nigra</i>	5.00	40.00
<i>Thuja occidentalis pyramidalis</i>	5.00	40.00
<i>Thuja occidentalis rosenthalii</i>	5.00	40.00
<i>Thuja occidentalis wareana (sibirica)</i>	5.00	40.00
<i>Thuja orientalis aurea nana</i>	5.00	40.00
<i>Thuja orientalis conspicua</i>	5.00	40.00
<i>Thuja orientalis elegantissima</i>	5.00	40.00

	Per 100	Per 1000
<i>Acer palmatum</i> , 1-yr., seedlings, 3 to 6 ins.	\$5.00	\$40.00

*Five-needle pines cannot be shipped in the following states: Arizona, California, Colorado, Georgia, Kentucky, New Mexico, Nevada, South Carolina and Tennessee.

DUE TO HANDLING COSTS, ORDERS FOR LESS THAN \$5.00
CANNOT BE ACCEPTED.

TERMS

Prices in this list are net cash F.O.B. Mountain View, N. J., but the usual terms will be extended to those of established credit. No goods sent C.O.D. unless 25 per cent of amount is sent with order. Five of one kind will be billed at the 10 rate; 25 at the 100 rate; 250 at the 1000 rate. From those not acquainted with our stock, a trial order will be appreciated. Packing extra at cost.

CHLOROMONE

The latest in rooting agents. Root your lily in one-third the time.

1-oz. trial bottle	\$ 1.50 plus postage
4-oz. bottle	3.00 plus postage
Case of 12-oz. bottles	21.60 plus postage

HESS' NURSERIES

MOUNTAIN VIEW, N. J.

PACHYSANDRA

The ideal permanent evergreen ground cover plant for shady and semishaded areas in all climates. Strong, well-rooted, 1-yr. plants, grown in outside soil frames: \$1.25 per 100, prepaid. \$35.00 per 1000; \$32.50 per 1000 for 10,000 or more in same shipment. Available for prompt shipment—late March through November. Shipments anywhere. Good packing free.

PEEKSKILL NURSERY Phone: Lakeland 8-5595 **SHRUB OAK, N. Y.**

TAXUS MEDIA HALLORAN

Past winters have proved this variety to be very well adapted for the middle western climate. We have 1, 2 and 3-year liners to offer.

VERKADE'S NURSERIES

NEW LONDON, CONN.

NURSERY MANUAL, by L. H. Bailey. Standard manual on propagation. 470 pages, \$5.50. American Nurseryman, Chicago 4, Ill.

7:46 A. M.—Phone call from Mrs. McCarthy, wants to know what to do for bugs on her African violets. Do we have the stuff her sister bought in South Bend? Her violets was bad and this stuff cleaned it right up. After 5 minutes' conversation she does not know the name of the stuff. In fact, she verges off on a series of questions on why don't her lilac bloom and the apple tree we sold her didn't have the kind of apples she expected and how do you graft on new branches, etc., etc., for a total of 17 minutes. In the meantime all the men are on the truck waiting.

8:05 A. M.—Phone call from the bank. Emil's deposit was wrong yesterday; we had one check down for \$27.52 and it should be \$27.51.

8:06 A. M.—Two men, 3 ladies and 4 children drive in with a station wagon. "We got a summer home at Turtle Lake. Here is a drawing of it. Could you give us some ideas of what to plant?" Meantime, 25 minutes has gone by and the men are waiting on the truck.

8:10 A. M.—The man from the Gazette come in for our ad. "Got to have it by 11 o'clock to get in tomorrow's paper," he says.

8:15 A. M.—Mailman comes with a C.O.D. shipment for \$12.08 for strawberries. "See if Bob has got \$5.00 on him, Chas." Emil says, "I'm a little short of \$12.08."

I went to the truck. "Where's Bob?" I says to Jerry. "He went over to the store to get some matches," Jerry says. Jerry didn't have but 35¢ so Emil had to go over to the house to get some money from Emma.

When that commotion was over Emil says, "Chas., you take care of these people from Turtle Lake, then make up a ad for the paper and then you can come over to Lake Park. I will start out with the men."

"What do you want in the ad, Emil?" I says.

"Run a special on glad bulbs, Chas., 59¢ a dozen," Emil says.

"What about the customers that paid 75¢," I says, "they won't like it."

8:30 A. M.—Phone call. "Joe Smith wants to borrow a lawn roller," Emil says, "run out and see if there is one there in the corn crib, Chas., while I hold the phone." There wasn't any, so Emil told Joe to call back Saturday. We have 4 rollers, but one is never in. One customer kept a roller for 2 years, we can never keep track of them.

Finally at 9:30 Emil got going

WHICH JUDSON SERVICE

best fits your needs?

PACK-OUT PLAN

STRAWBERRY PLANTS

SEND - LIVE PLANTS
Your Name _____

THE JUDSON NURSERY CO. 1955

NAME _____

ADDRESS _____

CITY _____

STATE _____

ZIP _____

YOUR NAME _____

HOW EASY IT WORKS...

Order-shipping tags printed with your name and address (see illustration) are printed by us and sent to you. You use this form to make up your order, filling in your customer's name and address and what you wish shipped. When we receive this tag we use the top half as the shipping label and ship your order to your customer postpaid at the proper planting time. We then return the stub to you with our invoice as proof of shipment. We ship strawberry plants, pyramid gardens and perennial plants for you under this pack-out plan. Write for complete catalog.

PERENNIALS — PYRAMID circular terraced gardens

BULK SHIPMENT PLAN

STRAWBERRY PLANTS

We have a complete line of popular strawberry plants and many of the new varieties that can be shipped f.o.b. Bristol, Indiana, to your storage. *Red Rich*® (plant patent 993) — the supply is double that of a year ago. We look forward to taking good care of mail order needs on *Red Rich* this year.

PERENNIALS

Be sure to write for our bulk list today.

PYRAMID circular terraced gardens

We can ship these F.O.B. six or more.

ORDER FROM THIS AD



F.O.B. BRISTOL, IND.

Genuine Jumbo June Bearing, identified by this trade mark. Heavy producer, excellent for freezing. \$20.00 per 1000
Dunlap 10.00 per 1000
Premier 12.00 per 1000
TWENTIETH CENTURY (Everbearing) One of the finest everbearers. 35.00 per 1000

Write for complete bulk list.

STORE PACKAGES



JUD-PAK PERENNIAL PLANTS

One plant per package individually jacketed in bright four color wrappers. 24 packages per case. Order from this ad.

PHLOX: (Prime Minister, white with red eye • Von Lassburg, white • Salmon Glow, pink • Ruby Lee, dark red • Flash, light red • Starlight, lavender.)

DELPHINIUM, mixed shades • CUSHION MUMS, bronze and pink • SHASTA DAISY, white • COLUMBINE, mixed shades • CARNATIONS, red and pink • SWEET WILLIAM, mixed • CREEPING PHLOX, white and pink • GAILLARDIA, orange and red.

All Varieties . . . \$4.80 your cost per case. (24 packages per case—Express Prepaid) Shipping weight—10 lbs.



JUD-PAK STRAWBERRY PLANTS

Each carton carries 24 beautiful four color packages containing 25 strawberry plants per package. (600 plants per carton) Seal packaged to hold up well.

JUNE BEARING

Your Cost Per Case
Dunlap 12.00
*Jumbo 18.00
*(Recommended as a fine strawberry for freezing)

EVERBEARING

Your Cost Per Case
Superfection 20.40
20th Century 24.00

Weight 25 lbs. per carton—Express Prepaid.
25 plants per package, 24 packages per case.

Be sure to write for complete catalog

judson
WHOLESALE NURSERIES
BRISTOL, INDIANA
PHONE 90-R9



Circular Terraced Garden



Pat. 2,651,143

Pat. Pending

This is the large aluminum four terrace "PYRAMID" 6' in diameter.

F.O.B. Bristol, Indiana

\$5.50

Postpaid to Your Customers

\$6.15

Suggested Retail Price

\$9.95

Accessory list sent upon request.
We have newspaper mats for strawberries and "PYRAMIDS."

RHODODENDRONS

Re-established grafts in peat moss. Have an abundance of new fibrous roots.

Two years' growth. 70 varieties.

Per 100 \$1.35 each
Per 1000 1.25 each

Rooted cuttings of TAXUS, JUNIPERS and ARBORVITAE.

Per 100 \$10.00
Per 1000 90.00

F.O.B. Lincroft, N. J.

Write for list.

PETER G. ZORG

Wholesale Nurserymen

P. O. Box 562, RED BANK, N. J.

Greenhouses: Half Mile Rd.,
Lincroft, N. J.

Representative for
J. Blaauw & Co.
Boskoop, Holland.



PRINCETON NURSERIES

A very complete line of
Quality Ornamental Stock.

Come to see us.

Send us your Want List.

Write for catalog.

PRINCETON NURSERIES

Ph. Princeton 1-1776 PRINCETON, N. J.



We never talk about the other fellow's low prices; he knows what his merchandise is worth. We grow good evergreen liners. Ask for our wholesale list.

The STEDMAN NURSERIES
NEWFANE, N. Y.

with the men and the truck and I was stuck with the party from Turtle Lake. It took me until almost eleven o'clock to complete my sales talk, when they up and left saying we was a lot higher than the F. & M. Nursery. Then I got busy on the ad for the Gazette. That is, I started on it, but there were customers in for grass seed, 2 gooseberries and a rhubarb root, and 4 calls for some gadgets that was on the television.

At 12:30 I hadn't started the ad yet and as the paper called again, I just told them to run the same ad as last week. Emil wouldn't like it but it was all I could do.

I was just starting my lunch when in come a truck load of peat moss to unload, which took me until after 1 o'clock. When I got back to my lunch, which I left on the platform of the windmill, two squirrels had made off with everything but a bottle of coffee which I finished off, letting the phone ring. A man is entitled to time out to have lunch.

The phone kept ringing so I answered it. It was Mrs. Van Rens, one of our customers on Blaine Ave. "My little boy just pulled most of the bark off the neighbor's maple tree. Will that hurt it any and what shall I do?" she says. She wanted me to go right over but I talked her out of it. "Sounds like you need a new tree," I says.

At 1:45 Father Daugherty called. "That big yew tree you put in has slipped. It's leaning off to one side. We got a wedding tomorrow, can you come over and straighten it?" he says. It's 18 miles over there and the tree was put in with a 1200 pound ball, so it takes the hoist and two men at least, but I promised him to have it fixed by nine o'clock tomorrow.

2:00 P. M.—Two ladies drove in from the Ladies Aux. of the Bartenders Union. They want an ad for the annual benefit program, minimum ad \$7.50. I skinned out of that by referring it to Emil. If they will look up their records they will find Emil took an ad last year but didn't send a check yet, but they don't know that.

2:15 P. M.—Phone call regarding roses that bloom all winter as advertised on the radio. "If there was anything like that, lady, we would have it," I says, "there aint no such thing," I says. "Oh yes, there is," she says, "I heard it on the radio." After a few rounds of that we wound up in a draw and hung up. I think she is stupid to believe such stuff and she thinks nurserymen are dumb, so we are even.

growing . . . since '98



How to INCREASE CUSTOMERS

Rely on Burr to provide planting materials of excellent quality that look well on sale and keep customers coming back to you. Our very large selection makes it easy to buy the varieties you want.

C. R. Burr & Co., Inc.

Manchester, Connecticut
or Phone Mitchell 3-4161

Roses

Shrubs

Trees

Evergreens

READY NOW

	Per 100	Per 1000
Cornus florida		
S., 1-yr., grafting size . . .	\$ 7.50	\$50.00
S., 1-yr., below grafting . . .	5.00	40.00
Ampelopsis veitchii (Boston Ivy)		
S., 1-yr., No. 1	7.50	60.00
S., 1-yr., No. 2	5.00	35.00
California Privet		
1-yr., R.C., 12 to 18 ins. . .	5.00	45.00
2-yr., R.C., 18 to 24 ins. . .	7.50	60.00

Free packing for cash with order.

BROUWER'S NURSERIES

Box 25 NEW LONDON, CONN.

WE OFFER

Per 1000

Cotoneaster horizontalis,

8 to 12 ins. \$400.00

Cotoneaster praecox, 1-yr., S. . . 225.00

VAN HOF NURSERIES

Bristol Ferry Rd. PORTSMOUTH, R. I.



Quality Ornamentals
Since 1881

COLE nursery company

2000 Jackson St.,

PAINESVILLE, O

Insure your earnings 8 ways with this famous fungicide

ORTHO CIDE

GARDEN FUNGICIDE (containing captan)



Controls all these plant diseases:

1. **Damp-off** on cuttings such as azaleas, chrysanthemums, carnations.
2. **Rot diseases** on many plants and seedlings when used as preplanting soil treatment.
3. **Rust, leaf spot, Botrytis Flower Blight** on carnations, chrysanthemums and other flowers.
4. **Black spot** on roses.
5. **Brown patch leaf spot and root rot** on lawns and turf.
6. **Blight, leaf spot and downy mildew diseases** on certain vegetable plants.
7. **Scab, leaf spot, brown rot** on fruit and ornamental trees.
8. **Protects certain seeds and bulbs** from damp-off and rot diseases.

Call your nearest distributor or jobber salesman or ORTHO representative today for more details on how ORTHOCIDE can increase *your* profits.



Above photo shows results of California Spray-Chemical research tests when chrysanthemum (upper half) and carnation cuttings (lower half) were treated with ORTHOCIDE. In each case the two on the left are untreated and the two on the right are ORTHOCIDE treated.

On all chemicals read directions and cautions before use.

T M ' S REG U S PAT OFF · ORTHOCIDE, ORTHO

CALIFORNIA SPRAY-CHEMICAL Corp.

Portland, Ore.
Sacramento, Calif.
San Jose, Calif.
Fresno, Calif.
Whittier, Calif.

Caldwell, Idaho
Maryland Heights, Mo.
Goldsboro, N. C.
Oklahoma City, Okla.
Orlando, Fla.

Phoenix, Ariz.
Shreveport, La.
Maumee, Ohio
Elizabeth, N. J.
Medina, N. Y.

Home Office: Richmond, Calif.

World leader in
scientific pest control

ORTHO
SCIENTIFIC PEST CONTROL

"A friendly, efficient sales service"

E. D. ROBINSON SALES AGENCY

38 S. Elm St. P. O. Box 247
WALLINGFORD, CONN.

Representing

Adams Nursery, Inc.
Bristol Nurseries, Inc.
Barnes Bros. Nursery Co., Inc.
The Cheshire Nursery, Inc.
Maxwell, Bowden & Rice, Inc.
A. N. Pierson, Inc.
Sunny Border, Inc.

SCARCE ITEMS AVAILABLE AT REASONABLE PRICES — NOT SPECIMEN PLANTS —

- 24 London Plane Tree, 3 to 4-in. cal.
- 21 4 to 5-in. cal.
- 17 5 to 6-in. cal.
- 7 6 to 7-in. cal.
- 60 Sweet Gum, 2 to 3-in. cal.
- 1 4 to 5-in. cal.
- 4 4 to 6-in. cal.
- 50 White Birch, 2 to 6-in. cal.
- 54 Mountain Ash, 2 to 4-in. cal.
- 37 Paul's Scarlet Hawthorn, 2 to 5-in. cal.
- 200 Gleditsia triacanthos, 2 to 6-in. cal.

RED OAKS — SPECIMEN PLANTS

Available in large quantities,
2 to 7-in. cal.

Prices on request.

THE BUDDIES NURSERY

P. O. Box 14 BIRDSBORO, PA.

FOR 57 YEARS

*Our business has been
growing*

Rhododendrons
Azaleas
Perennials, Roses
All Nursery Items

BOBBINK NURSERIES, INC.

586 Paterson Ave.
E. RUTHERFORD, N. J.

WELLER'S PERENNIALS

With That Wonderful Root System

Headquarters for
HARDY MUMS AND PHLOX

Ask for our Perennial Catalog.

WELLER NURSERIES CO., Inc.
Leading Perennial Growers
HOLLAND, MICH.

PRIVET and BERBERIS

Splendid Stock

Write for Special Quotations

DIAMOND STATE NURSERIES
MILFORD DELAWARE

Between then and 6 o'clock I had 9 phone calls as follows:

The red maple a lady bought last fall is dead, she watered it faithfully all winter. Another lady wants to know what to do with a flowering almond that the rabbits ate clean down to the ground. Will she have flowers again? We never told her about the rabbits, she says, and thinks she ought to have a new bush. A little girl wants to give one raspberry plant to her pa for his birthday and did we have any sizes for 10¢? That reminded me to check on the raspberries and I found we had only 75 left and orders for 300, so I had to get a wire off to John Bush-bottom. Two calls came in, in regard to climbing roses that used to have red flowers and now have only small white ones. No amount of explanation will satisfy customers on that problem. The roses was no good, and her neighbor bought one at the dime store that never turned back to white. She wished she had bought hers there. I wished the same thing.

Four ladies came at five o'clock when they should have been home getting supper. They wanted to pick out and take home some perennials. This took me until a quarter to 6 and brought in 80¢ and while I was out there I seen two other cars come in and drive out again.

About 5:30 a man drove in looking for Emil. He wouldn't talk to me and I think he was a collector from the garage where Emil had the truck fixed last fall. Emil figured a 1937 truck should run like new for \$42.50, but it didn't and Emil refused to pay the bill.

At 6 o'clock it dawned on me that this was pay day, so I made out the checks. Emil always dates them for Saturday; then they don't get to the bank until Monday morning. Generally he can get down early Monday with a deposit to cover. Generally, that is, but not always.

Emil come in at quarter to seven. Surprisingly he was in good spirits. "How did you make out?" I says. "We didn't get done; got to go back in the morning," he says. Then I seen why he was feeling so good. Out jumped a mangy looking coon dog. "Aint he a dandy, Chas.?" Emil says, looking over his glasses at that dog "I traded that crooked willow and 2 Norway spruce for him. After supper I'm going out to see how he works," Emil says. As I went out to get my car I seen Mr. and Mrs. Eddy drive in. They are real pests. I heard her say she wanted to change her plan all around and put in shrubs instead of evergreens

TAXUS

Fine blocks of

Taxus

- Cuspidata, 12 to 15 ins. and 15 to 18 ins.
- Hicksi, 18 to 24 ins. and 24 to 30 ins.
- Kohli, 15 to 18 ins. and 18 to 24 ins.
- Darkest green upright globe with heavy stem and foliage
- Vermeulen, 2 to 2½ ft. and 2½ to 3 ft.

JUNIPERUS

- Hetzl, 15 to 18 ins.
- Pfitzeriana, 15 to 18 ins.

Truly fine stock. Well sheared and priced right. Your inspection is invited.

ANGELICA NURSERIES

Growers of fine plants

R. D. I MOHNTON, PA.

HEMLOCK

NORTHERN-GROWN

	Per 100	Per 1000
2 to 4 ins., S.....	\$ 1.00	\$ 5.00
3 to 6 ins., S.....	2.00	10.00
6 to 9 ins., S.....	3.00	20.00
9 to 12 ins., S.....	7.00	45.00
12 to 18 ins., S.....	9.00	70.00
18 to 24 ins., S.....	25.00	....

Freshly collected. Well-rooted. Puddled and packed in sphagnum moss. Catalog of plants, ferns, evergreens on request.

William Crosby Horsford

CHARLOTTE, VT.

EVERGREENS

300 acres of choice Evergreens
ready for immediate resale

Write for list.

GARDNER'S NURSERIES, Inc.

ROCKY HILL, CONN.

HEMLOCK

Rhododendron—Kalmia

Azalea

CURTIS NURSERIES

CALLICOON, N. Y.

SHEPARD NURSERIES

Growers and Distributors of

ORNAMENTAL NURSERY STOCK

Truckloads only, no boxing.

60 acres growing. Skaneateles, N. Y.



The Super 55 offers diesel or gasoline engine. Equipment shown is Oliver 1000-pound loader and Danuser 3-point hitch blade.

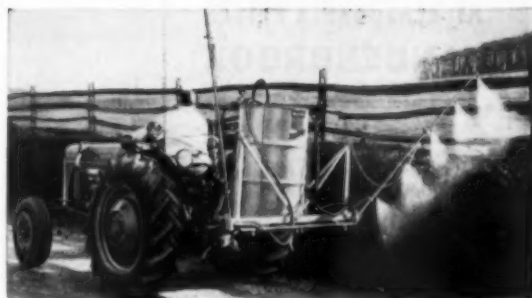
In features, versatility... OLIVER SUPER 55 is years ahead!

From every angle, this new Oliver is years ahead in power, flexibility, handling ease and utility than any tractor of comparable size!

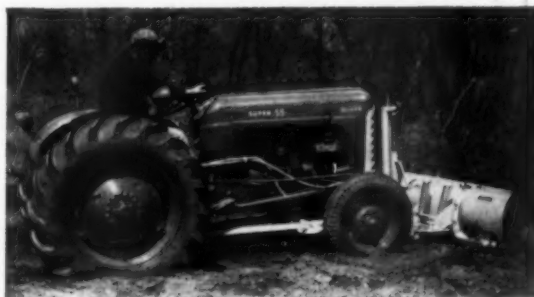
Only the Super 55 gives you a choice of two engines—diesel or gasoline. You pick the one that fits your work the best, saves the most. You pick the equipment you want, too—3-point hitch, front or side mounted. Built-in hydraulics operate all three types.

The Super 55 is low and compact, built to the size that lets you work anywhere. Its light-handling ball-type steering and double-disc brakes make maneuvering in tight quarters easy. And with six forward speeds—five working speeds, one road speed—you select the gear for each job, do more on less fuel than ever before.

You'll be surprised at the low price of this years-ahead tractor. Why not try the Super 55 yourself? Phone or visit your Oliver Industrial Distributor for a demonstration.



Here is the Super 55 with 3-point hitch Oliver Iron-Age weed sprayer. Oliver also offers many other mounted and pull-type sprayers.



This universal frame is hydraulically operated from the built-in hydraulic system. Takes bulldozer blade, angle blade and snow plow.

THE OLIVER CORPORATION
400 West Madison Street, Chicago 6, Illinois



FIELD-GROWN LINERS

2 and 3-yr., quality transplants

JUNIPER, PFITZER

(Silver-blue strain) Per 100 Per 1000
3-yr., XX, 12 to 15 ins. \$45.00 \$400.00

ILEX CONVEXA, BULLATA

(Convex-leaved Holly)

2-yr., X, 4 to 9 ins. 25.00 200.00
1-yr., X, 4 to 6 ins. 15.00 140.00

ILEX CRENATA (Japanese Holly)

2-yr., S., 4 to 6 ins. 10.00 50.00
3-yr., S., XX, 6 to 9 ins. 30.00 250.00

Cash with order 2% discount. Free packing. A total of 5% discount on orders of \$300.00 or more.

BROOKFIELD GARDENS

U. S. Rt. 46 DELAWARE, N. J.

QUALITY LINERS

Dwarf Mt. (Mugho) Pine Per 100
3 to 5 ins., T., 4-yr. \$12.50
Canadian Hemlock
4 to 8 ins., transplants. 17.50
Colorado Blue Spruce
5 to 10 ins., transplants. 20.00
Pink-flowering Dogwood
6 to 10 ins., 1-yr. grafts. 65.00
10 to 15 ins., 1-yr. grafts. 75.00
Send for new Spring List.

POSSUM HOLLOW NURSERIES

6327 Magnolia St.
PHILADELPHIA 44, PA.

QUALITY MERCHANDISE AT REASONABLE PRICES VANDERBROOK NURSERIES, INC.

MANCHESTER, CONN.

Wholesale Nurserymen Since 1922

TAXUS CAPITATA

A few hundred beautiful specimen *Taxus capitata* in sizes from 5½ to 6 ft. Certified for western shipments. Write for prices.

LEGHORN'S EVERGREEN NURSERIES
Geer St. CROMWELL, CONN.

Choice Varieties of Lining-out Stock.
Write for our latest price list.
PALLACK BROS. NURSERIES, INC.
Route 19, 31 mi. north of Pittsburgh, Pa.
Ph.: Zelienople 789
R.F.D. 1 HARMONY, PA.

and this was the only time Mr. Eddy could get away. Before Emil could flag me I raced my engine and made a lot of noise and sneaked out the back way. I had enough for one day.

COVER ILLUSTRATION

Abies Holophylla

One of the more uncommon firs is the needle fir, *Abies holophylla*. It was introduced into America in 1905, but has been grown and planted only sparingly since that time. It has been seen mostly in arboretums and other plant collections. It is native to Manchuria and Korea.

The needle fir becomes a large tree at maturity in its native habitat, being reported as reaching approximately 100 feet in height. This tree is pyramidal in shape; the buds are slightly resinous; the twigs are glabrous, slightly grooved and yellowish gray in color.

The leaves are three-fourths to one and one-half inches long and sharp pointed. The leaves are glossy green above and have two slightly whitish bands below.

It is probable that the needle fir has much the same cultural requirements as the more common firs used in landscape plantings, although there has been little opportunity to observe this species under variable conditions. A cool climate and ample moisture, but good drainage, are to the liking of most firs. It is listed as being hardy in zone 5 of Rehder and is propagated by seeds.

This beautiful fir is worthy of further trial to determine its value in general landscape plantings.

L. C. C.

SHREVEPORT MEETING.

Steve Verhalen, of the Verhalen Nursery, Scottsville, Tex., was the main speaker at a meeting of the Louisiana Landscape Association March 12 at Shreveport. The day-long meeting opened with a tour of gardens in Shreveport. More than 40 persons including a group of students from Louisiana State University attended.

Hosts for the meeting were Edward Aigen, George Wilkes and Louis Claiborne. The group is an association of registered landscape architects and landscape gardeners. Dr. Robert S. Reich, professor of landscape architecture at Louisiana State University, is president of the association.

LITTLE TREE NURSERY, Marion, Ind., has changed its address from Route 3, Box 130, to 5010 Lincoln boulevard.

SPRING DELIVERY

Choice Stock

	Per 100
10 Acer Platanoides Drummondii, 6 to 8 ft.	\$600.00
25 Asalea Canadensis, 18 to 24 ins.	250.00
10 Cherry, Kwanzan, 6 to 8 ft.	475.00
10 Cherry, Mt. Fuji, 6 to 8 ft.	475.00
100 Cladrastis Lutea, 2 ft., XX.	75.00
100 Euonymus Alatus Compactus, 2 ft.	150.00
50 Hornbeam, Fastigiate, 3 to 4 ft.	475.00
50 Laburnum Vossii, 6 to 8 ft.	550.00
40 Laburnum Vossii, 5 to 6 ft.	475.00
25 Magnolia Lennel Alba, 2 to 4 ft.	400.00
100 Mahonia Aquifolium, 12 to 15 ins.	65.00
50 Prunus Amanogawa, 6 to 8 ft.	500.00
150 Prunus Subhirtella Pendula, 2-yr., No. 1.	550.00
10 Viburnum Fragrans, 3 to 4 ft.	350.00

Cash with order; 25 at 100 rate.

BRIMFIELD GARDENS NURSERY

245 Brimfield Rd.
WETHERSFIELD 9, CONN.

ORNAMENTAL EVERGREENS

Trees and Shrubs

BAGATELLE NURSERY

P. O. Huntington Station, N. Y.

ILEX BULLATA

A very choice, very hardy, low-growing evergreen, with shiny, dark green, convex, boxwoodlike leaves. Grows fast into money, up to 2 feet, and there slows down. Ultimate size 3 feet high and 4 feet wide. Easier to grow than Yews and can be used in sun or shade. Sells on sight. Grows very dense and contrasts well with other evergreens. Makes the perfect low hedge.

6 to 8 ins., T. . . 15c. 8 to 10 ins., T. . . 20c.
Send for list of other unusual plants.

ALANWOLD NURSERY

NESHAMINY, Bucks Co., PA.

RHODODENDRON ROOTED STEM CUTTINGS

50¢ to 80¢ each

70 of the better varieties ready in early May.

Send us your want list.
Pickup only.

ANGELICA NURSERIES

Growers of fine plants

R. D. 1 MOHNTON, PA.

DEL-MAR-VA NURSERIES

Growers of Quality

Taxus, *Ilex* and other Ornamentals.
Ask for list.

DEL-MAR-VA NURSERIES
LINCOLN, DEL.

Phone: Milford, Delaware 4445

HEDGE PLANTS — ASPARAGUS

For Immediate or Later Delivery, as Desired

	Per 10	Per 100	Per 1000
LIGUSTRUM ovalifolium (California Privet)			
9 to 12 ins., 2 canes or more.....	\$0.85	\$ 7.00	\$ 55.00
12 to 18 ins., 3 canes or more.....	1.20	10.00	80.00
18 to 24 ins., 3 canes or more.....	1.40	12.50	95.00
2 to 3 ft., 4 canes or more.....	1.85	16.00	145.00
3 to 4 ft., 6 canes or more.....	2.75	22.50	200.00
LIGUSTRUM amurense (Amur River North)			
9 to 12 ins., 2 canes or more.....	1.00	7.50	65.00
LIGUSTRUM ibolium (Ibolium Privet)			
9 to 12 ins., 2 canes or more.....	.85	7.00	60.00
LIGUSTRUM ibota (Border Privet)			
18 to 24 ins., 3 canes or more.....	3.50	30.00	....
2 to 3 ft., 4 canes or more.....	4.50	40.00	....
3 to 4 ft., 6 canes or more.....	5.50	50.00	400.00
4 to 5 ft., 6 canes or more.....	6.50	60.00	500.00
LIGUSTRUM ibota regelianum (Regel Privet)			
18 to 24-in. spread.....	4.50	40.00	350.00
2 to 2 1/2-ft. spread.....	5.50	50.00	450.00
2 1/2 to 3-ft. spread.....	7.00	65.00	600.00

We are the largest growers of asparagus roots in America. The continued increase in demand for our roots is ample proof of our customers' satisfaction. Our asparagus has made a very good growth again this season, and test digging from various farms indicates the crowns will average better in quality than ever before.

Mary Washington Asparagus

	Per 25	Per 100	Per 250	Per 1000
3-yr., No. 1.....	\$1.25	\$4.00	\$8.75	\$30.00
2-yr., No. 1.....	1.00	3.00	5.75	20.00
1-yr., No. 1.....	.75	2.50	4.25	14.00

Write for special prices on quantity lots of these items. We can quote even more attractive prices than those specified in this advertisement to buyers interested in large quantities.

FREE PACKING FOR CASH WITH ORDER. Our regular Wholesale List offers a complete line of nursery stock. If you failed to receive your copy, write us today. When requesting wholesale rates, kindly use your printed stationery indicating you are entitled to trade prices.

BUNTINGS' NURSERIES, INC.

Box 3

SELBYVILLE, DEL.

W. E. SNYDER TO RUTGERS

Dr. William E. Snyder has been appointed professor of ornamental horticulture at Rutgers University, New Brunswick, N. J., effective September 1.

Dr. Snyder holds a similar position at Cornell University. He will finish his duties there this spring and then fulfill previously made commitments to visit horticultural stations and nurseries in England, Scotland, France, Germany and Holland and

BARBERRY LINERS

	Per 100	Per 1000	Per 5000
Green—			
2-yr., S., 6 to 9 ins.....	\$ 5.50	\$ 35.00	\$125.00
2-yr., S., 9 to 12 ins.....	7.50	50.00	200.00
2-yr., S., 12 to 18 ins.....	10.00	70.00	300.00
Red—			
2-yr., S., 6 to 9 ins.....	5.50	45.00	200.00
2-yr., S., 9 to 12 ins.....	7.00	60.00	....
2-yr., S., 18 to 24 ins.....	14.50	125.00	....
2-yr., T., lightweight, 12 to 18 ins.....	20.00	175.00	750.00

FAIRVIEW EVERGREEN NURSERIES
FAIRVIEW, Erie Co., PA.



Dr. William E. Snyder

to attend the International Horticultural Congress in Holland.

The new appointee will become familiar with his duties at Rutgers by working closely with Dr. Charles H. Connors, professor of ornamental horticulture for 35 years, whose retirement is approaching.

Dr. Snyder is a native of Neosho, Mo. He received the bachelor of arts degree from the University of Colorado and the master of science and doctor of philosophy degrees in plant physiology from the University of Chicago. He became assistant professor of biology at Louisiana Polytechnic Institute, Ruston, La. He was a member of the staff there until 1946, but was on military leave for about four years.

Upon completion of his active army service in 1946, Dr. Snyder received an appointment as assistant professor of ornamental horticulture at Cornell and later was promoted to associate professor rank.

Dr. Snyder is now working on a nationwide survey of nursery research being conducted in experiment stations, colleges and universities, botanical gardens and private institutions. The survey is sponsored by the American Association of Nurserymen and results will be announced in July at the A. A. N. convention at Toronto.

Dr. Snyder is secretary and treasurer of the Plant Propagators Society and also edits the proceedings of the annual meeting of that society.



This Business Of Ours

Reflections on the Progress and Problems of Nurserymen

By E. Sam Hemming

GIVING PREMIUMS

Usually when you make a sale you think in terms of so much cash for value received. If the product of two competitors is the same and the price is the same, what determines who makes the sale? This is often considered one of the mysteries of business life, for the two competitors will not make the same number of sales; there is always a difference in volume. Often the difference is extreme even to the extent that one prospers while the other fails. There are many intangibles in business success, such as management, advertising, general efficiency. There is one intangible that seems to be the real key to success in selling, and not too many know what it is. It has many disguises and takes many forms, and sadly too often it is perverted. The real key to success in selling is, to use my father's pet expression, "to be apparently generous."

Stop and think how important it is to your customers and also to you personally when you buy anything, that you not only get your money's worth, but that you feel good about the object you have bought. Being apparently generous, as I have mentioned, can take the form of giving direct premiums, but in its most successful form is applied in more subtle ways. The giving of premiums usually is perverted into a racket, with serious cheapening of the main product, especially when too heavy a reliance is placed on this method.

In its best sense, "being apparently generous" does not mean giving something for nothing, but rather that extra something which makes the customer content. The beauty of the principle is that it is adaptable to all forms of enterprise and all methods of selling. It is as adaptable to the Tiffany type of business as to the self-help "five and dime." In the Tiffany type of business the highest quality is offered with a relatively high markup. Yet the purchaser is content because, along with high quality, he gets prestige of possession as well as special service in handsome surroundings while making his purchase. This type of busi-

ness is the best form to adopt in the landscape business, because it does not lend itself to mass production. The extras a customer gets in a Tiffany-type landscape business are expert advice, high-quality plants and planting service and lots of conversation. Even the much-disputed "free" plan, when furnished under an attitude of being apparently generous and in the right atmosphere, is appreciated by the customer.

It is often hard to decide, when operating a business, how generous you can be. Should you give any of your plants away, or will it seem to cheapen your product in the eyes of customers? If done in the right way, I do not think so. It has long been

our custom in our own nursery to give a particularly important customer, or one we should like to please, an attractive bunch of flowers cut in the nursery. We do not sell our flowers in the nursery nor does the gift compete with local florists, but I notice it always pleases the customers. We do not often give away plants even to favored customers, yet even that can be done at the right time and in the right manner. If a customer gives a large order it certainly cannot hurt to give a choice item in appreciation.

A little incident occurred to me this spring that might be of value to us in our type of business. I recently ordered an astronomical telescope from a reputable firm; because of heavy sales, shipment was two months slow. Not only did they apologize, but they sent me, free of charge, a fifth eyepiece, worth \$8. Maybe it would be a good idea when we make our landscape customers wait to give them a little plant. The extra eyepiece did not cheapen the product in my eyes; I was just plain glad to get it.

Just as being generous is appli-

GROUND COVER SPECIALISTS PACHYSANDRA TERMINALIS

The evergreen ground cover, ideal for shade.

For Spring and Fall, 1955.

	100	1000
2-yr., No. 1 selected plants	\$6.00	\$50.00
1-yr., field-grown hardy plants	3.50	30.00

(Special prices on lots of 5000—

no charge for packing.)

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(Formerly Hugh B. Barclay)

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Phone: MO 4-3923



WAYNESBORO NURSERIES

LATE SPRING, 1955, SPECIALS

WAYNESBORO, VIRGINIA

PEACH TREES

	Per 10	Per 100	Per 1000
7/8-in. cal. and up, 6 to 7 ft.	\$89.50	\$895.00	\$750.00
1 1/8 to 3/4-in. cal., 5 to 6 ft.	8.00	70.00	600.00
Belle of Georgia	Redskin		
Elberta	Shipper's Red		
Halehaven	Sullivan Early Elberta		
J. H. Hale			

NUT TREES

	Per 10	Per 100
American Filbert	\$7.50	\$70.00
3 to 4 ft.	9.00	80.00
4 to 5 ft.	10.00	90.00
Chinese Chestnut	7.50	\$65.00
2 to 3 ft.	10.00	90.00
3 to 4 ft.	15.00	140.00
4 to 5 ft.	20.00	185.00
5 to 7 ft.		
Cumberland Raspberry, 1-yr., tips, \$5.00 per 100, \$45.00 per 1,000.		

SHRUBS

	Per 10	Per 100
Deutzia Pride of Rochester and crenata, 3 to 4 ft.	\$5.00	\$45.00
Deutzia Pride of Rochester and crenata, 4 to 6 ft.	7.50	70.00
Dogwood, red stem, 3 to 4 ft.	5.00	45.00
Dogwood, red stem, 4 to 6 ft.	6.00	55.00
Forsythia—fortunei, spectabilis, suspensa, viridissima		
2 to 3 ft.	3.50	30.00
3 to 4 ft.	5.00	45.00
4 to 5 ft.	6.00	55.00
Forsythia Spring Glory, 3 to 4 ft.	6.00	55.00
Forsythia Spring Glory, 4 to 5 ft.	7.00	65.00
Mock Orange, common, 2 to 3 ft.	3.50	30.00
Mock Orange, common, 3 to 4 ft.	5.00	45.00
Rosemary Willow, 3 to 4 ft.	5.00	45.00
Tamarix, 3 to 4 ft.	5.00	45.00
Tamarix, 4 to 5 ft.	7.50	70.00
HEDGE—Hardy Evergreen Chinese Privet (Ligustrum sinense), 3 yr., 3 to 4 ft., T., heavily br., \$22.50 per 100, \$200.00 per 1000.		

CONIFEROUS EVERGREENS

	Each	Each
NOTE: Evergreens quoted for truck or car load delivery only. No boxing.		
	1 to 10	10 and up
Fir, Balsam and Douglas, 4 to 5 ft.	\$4.50	\$4.25
Fir, Balsam and Douglas, 5 to 6 ft.	6.00	5.75
Hemlock, Canadian, 18 to 24 ins.	2.35	2.25
Hemlock, Canadian, 2 to 2 1/2 ft.	3.00	2.85
Juniper, Andorra, Pfitzer and Hetzi		
2 to 2 1/2 ft.	2.75	2.50
2 1/2 to 3 ft.	3.50	3.25
3 to 3 1/2 ft.	4.25	4.00
3 1/2 to 4 ft.	5.00	4.75
4 to 5 ft.	8.00	7.75

CONIFEROUS EVERGREENS—Continued

	Each	Each
	1 to 10	10 and up
Pine, White and Scotch, 2 to 3 ft.	\$3.25	\$3.00
Spruce, Black Hills and Norway, 18 to 24 ins.	2.00	1.85
2 to 2 1/2 ft.	2.50	2.25
2 1/2 to 3 ft.	3.25	3.00
Yew, Hicks, 15 to 18 ins.	2.75	2.50
18 to 24 ins.	3.50	3.25
2 to 2 1/2 ft.	4.75	4.50
Yew, spreading (Taxus cuspidata), 15 to 18 ins.	3.25	3.00
Yew, spreading (Taxus cuspidata), 18 to 24 ins.	4.25	4.00

BROAD-LEAVED EVERGREENS

	Each	Each
	1 to 10	10 and up
Azalea Corsage (Gable type), 10 to 12 ins.	\$1.10	\$1.00
12 to 15 ins.	1.60	1.50
15 to 18 ins.	2.00	1.85
Azalea ledifolia alba (White Indica), 24 to 30 ins.	5.00	
Azalea ledifolia alba (White Indica), 30 to 36 ins.	7.50	
Euonymus patens, 15 to 18 ins.	1.50	1.25
Euonymus patens, 18 to 24 ins.	2.00	1.75
Hex rotundifolia, 12 to 15 ins.	1.75	1.50
15 to 18 ins.	2.75	2.50
18 to 24 ins.	3.50	3.25
Hex crenata, 18 to 24 ins.	3.00	2.75
2 1/2 to 3 ft.	3.75	3.50
2 1/2 to 3 ft.	4.50	4.25
Ligustrum lucidum, 18 to 24 ins.	2.00	1.85
Ligustrum lucidum, 2 to 2 1/2 ft.	2.50	2.25
Viburnum rhytidophyllum, 2 to 3 ft.	2.75	2.50
3 to 4 ft.	3.25	3.00
4 to 5 ft.	5.00	4.50
5 to 6 ft.	8.00	7.50

ROSES

	Each	Each
	2-yr. No. 1	10 to 20
	20 to 100	100 to 1000
PATENTED HYBRID TEAS:		
Charlotte Armstrong (Pat. 465)	\$1.25	\$1.12 1/2
Chrysler Imperial (Pat. 1167)	1.40	1.25
Lowell Thomas (Pat. 696)	1.10	1.00
Miranda (Pat. 632)	1.25	1.12 1/2
Nocturne (Pat. 713)	1.10	1.00
Peace (Pat. 591)	1.40	1.25
Rubaiyat (Pat. 758)	1.00	.87 1/2
FLORIBUNDAS:		
Fashion (Pat. 789)	1.15	1.00
Floradora	.60	.55
Peace Climber (Pat. 932)	1.10	1.00
STANDARD NONPATENTED ROSES:		
Hybrid Teas—2-yr., No. 1	.50	.45
Ami Quinard		
Caledonia		
Condesa de Santiago		
Nonpatented Climbers	.50	.45
American Beauty		
Paul's Scarlet		
Silver Moon		

cable to the Tiffany type of business, it is also applicable to the cash-and-carry and self-service type. The very principle of self-service is based on this idea, for the customer here has the opportunity of picking out the very piece he wants. He may think he is getting the largest and the best, even if all are identical. In addition, he has the advantage of quick service and similar conveniences. The success of the garden store relies on these subtle items of generosity.

Even in the less sharply defined, so-called general type of business, this generosity applies and has as much to do with success as does so-called efficient business management. Often all you have to be generous with is yourself. As busy as we often get in the rush season, the most important part of any sale is kindly given, intelligent horticultural advice. In fact, when sincerely given, I believe it can make the customer actually forget price.

Nurseries have also tried giving premiums for purchases, especially in the mail-order type of business. This can be a suitable means of attracting customers; just so long as the premium itself does not become the chief attraction it would seem legitimate. The main thing is to be

LILACS ON OWN ROOTS

Leading varieties. All sizes, 3 to 8 ft. 4000, all transplanted.

RED LAKE CURRANTS

Assortment of Large-size Plants for Landscape Planting

Having sold land, will clear this fall. Inspection and Correspondence Invited.

SAMUEL FRASER NURSERY

Box 158
Geneseo, N. Y.

SMALL FRUIT PLANTS

Grapes

Currants

Berry Plants

Write for Wholesale Price List

FOSTER NURSERY CO., Inc.

69 Orchard St. FREDONIA, N. Y.

apparently generous to the advantage of your business self-respect.
E. S. H.

FLORIDA SHORT COURSE

A short course for nurserymen and landscape designers, conducted by the University of Florida agricultural extension service, was held in the Dade county school farm auditorium, Miami, March 30 and 31. The first day's program covered insect pests and their control, soil testing, lawn establishment and a panel discussion of research needs in ornamental horticulture in south Florida.

Panel members included Dr. E. W. McElwee, University of Florida extension ornamental horticulturist,

moderator; Hugh Lalor, president of the Florida Nurserymen and Growers Association; Francis Stott, president of the Greater Miami Nurserymen and Landscapers Association; Carl Bachman, president of the Dade County chapter, Florida Nurserymen and Growers Association; Dr. Taylor Alexander, chairman of the botany department, University of Miami; John Fritz, Melrose Nursery; Edward J. Allen, Bishop Seed Co., and Herbert Barker, Dade county parks department.

Landscaping of homes, growing of tropical fruit and control of diseases on ornamentals were discussed on the second day. John D. Campbell, assistant county agent and chairman of the program, said the meeting would be an annual event.

ROSA MULTIFLORA JAPONICA

(Multiflora Rose)

Hardy, northern-grown seedlings. Upright, thorny type for stock-tight living fences, conservation and budding understock. We select our seeds for trueness to type. The plants are excellently grown.

	Per 1000
1 to 2-mm. cal., 8 to 10 ins. in height.....	\$10.00
2 to 3-mm. cal., 10 to 15 ins. in height.....	12.50
3 to 4-mm. cal., 12 to 15 ins. in height.....	15.00
4 to 6-mm. cal., 15 to 24 ins. in height.....	25.00
6 to 12-mm. cal., 18 to 36 ins. in height.....	35.00
Conservation grade, 3 to 12-mm. cal., 12 to 24 ins.....	22.50

Heights are approximate. Sample for \$2.00. Also sold row run by the pound. You do the counting, at very attractive prices. No charge for packing. Shipped cut back to about 8 ins. unless you state otherwise.

Ask for quantity prices.



BROOKVILLE NURSERIES

GLEN HEAD, N. Y.

SEEDS

for the Nurseryman and Forester.

Write for catalog.

F. W. SCHUMACHER, HORTICULTURIST
SANDWICH, MASS.

J & P

EVERGREENS
SHADE TREES

SHRUBS, VINES
HEDGE PLANTS, etc.

In good assortment.

Jackson & Perkins Co.
NEWARK, NEW YORK STATE

LINING-OUT STOCK

IN WIDE ASSORTMENT

Hardy Azaleas, Pink Dogwood, Jap. Red Maples, Old English Boxwood, Lilacs (French Hyb.), Evergreens, etc., in 1, 2 and 3-yr. transplants, at competitive prices. Write for list.

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DEERFIELD STREET P. O., N. J.

BOULEVARD NURSERIES

Newport, R. I.

- Quality Nursery Stock
- Lining-Out Stock
- Root-Thru Plant Pots

Trees, Evergreens, Shrubs Fruit Trees

Write for Our Wholesale Trade List

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Telephone 2689 GENEVA, N. Y.

Specialists in PERENNIALS

SEEDS—PLANTS—BULBS

Perhaps America's largest list of unusual plant materials.

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PEARCE SEED COMPANY
Dept. N MOORESTOWN, N. J.

TAXUS

Upright, 4 to 14 ft.

Truckloads only, no boxing.

BULK'S NURSERIES

BABYLON, L. I., N. Y.

GROWERS

EVERGREEN TREE LINING-OUT STOCK

SUNCREST EVERGREEN NURSERIES

P. O. Box 594 JOHNSTOWN, PA.

NORTHERN-GROWN STOCK

WRITE FOR NEW LIST

BROWN BROTHERS CO.
EAST ROCHESTER, N. Y.

HOLLIES

One of the most complete collections of the better named varieties of American and English holly, 3 to 6-inch pots. Send for list.

ANGELICA NURSERIES
R. D. 1 MOHNTON, PA.

FRUIT TREES

Dwarf and Standard

Send for Wholesale List

KELLY BROS. NURSERIES, INC.
Dansville, N. Y.

Coming Events



MEETING CALENDAR

May 14 to 17, Florida Nurserymen & Growers Association, Colonnades hotel, Riviera Beach, Fla.

May 30, 31 and June 1, short course, Texas Association of Nurserymen, Texas A. and M. College, College Station, Tex.

June 5 to 7, Georgia State Nurserymen's Association, annual meeting, Radium Springs Inn, Albany.

June 5 to 7, annual convention, Alabama Nurserymen's Association, Alabama Polytechnic Institute, Auburn.

June 8 and 9, refresher course, California State Polytechnic College, San Luis Obispo.

June 9 to 11, South Carolina Nurserymen's Association, Cleveland hotel, Spartanburg, S. C.

June 20 and 21, Mississippi Florists' and Nurserymen's Association, Heidelberg hotel, Jackson, Miss.

June 20 and 21, Plains Nurserymen's Association and New Mexico Nurserymen's Association, joint convention, Hilton hotel, Albuquerque, N. M.

June 20 to 22, Missouri State Nurserymen's Association, annual short course and meeting, University of Missouri, Columbia, Mo.

June 21 to 23, Kentucky Nurserymen's Association, Butler Memorial state park, Carrollton, Ky.

July 10 to 14, American Association of Nurserymen, Royal York hotel, Toronto, Ont.

August 8 and 9, National Mail Order Nurserymen's Association, La Salle hotel, Chicago, Ill.

August 10, Association of New Jersey Nurserymen, Howe Nurseries, Pennington, N. J.

August 14 to 16, Southern Nurserymen's Association, annual convention, George Vanderbilt hotel, Asheville, N. C.

August 22 to 24, Washington State Nurserymen's Association, Gaffney's Lake Wilderness lodge, near Renton, Wash.

September 7 to 9, Oregon Association of Nurserymen, Gearhart hotel, Gearhart, Ore.

September 13 to 15, California Association of Nurserymen, Yosemite National Park, Calif.

MISSISSIPPI MEETING

The annual meeting of the Mississippi Florists' and Nurserymen's Association will be held at the Heidelberg hotel, Jackson, Miss., June 20 and 21, according to Dr. Walter E. Davis, secretary-treasurer of the association.

KENTUCKY MEETING

The summer meeting of the Kentucky Nurserymen's Association will be held at Butler Memorial state park, Carrollton, Ky., June 21 to 23. The first day of the meeting will be devoted to discussions of juniper grafting. The next two days will be largely given to recreational activi-

ties, including tours to several nurseries in the vicinity. No formal program is planned for the 3-day meeting.

SOUTHERN MEETING

The annual meeting of the Southern Nurserymen's Association will be held at Asheville, N. C., in the George Vanderbilt hotel, August 14 to 16.

SOUTH CAROLINA MEETING

The South Carolina Nurserymen's Association will hold its annual convention June 9 to 11 at the Cleveland hotel, Spartanburg, S. C. A forum on "Everyday Nursery Problems" will be a highlight of the meeting. Dwight Cain, Spartanburg, is general chairman of the convention, and Rudolf Anderson, Greenville, program chairman.

MISSOURI SHORT COURSE

The annual short course and meeting of the Missouri State Nurserymen's Association will be held June 20 to 22 at the University of Missouri, Columbia, Mo. A well-rounded program, with one or two special speakers discussing phases of the nursery industry not covered at past meetings, is planned.

ALABAMA PROGRAM

The Alabama Nurserymen's Association's annual convention will be held on the campus of the Alabama Polytechnic Institute June 5 to 7.

"Irrigation and Marketing" — theme of the 3-day conference — will be of special interest to the nurserymen. Special plans have been made for the wives and children of association members and others attending.

The ladies will have a special luncheon program, "Corsages for Every Occasion," and a tour of the A.P.I. campus.

Future nurserymen, youngsters from 6 to 20, will have an educational and recreational program. Richard P. White, executive secretary of the American Association of Nurserymen, will give the keynote address to this group, "Why Nursery Organization?" He will also give a report on marketing of ornamentals the last day of the conference.

Donald Hastings, president, of H. G. Hastings Co., Atlanta, Ga., is also among the featured speakers. He will discuss "Modern Retailing" at the closing session, Tuesday.

The conference will be held in Auburn's air-conditioned Union

CHRISTINE BUISMAN ELM

(See *American Nurseryman*, April 1, 1955, page 11)

Having learned to propagate this valuable tree vegetatively to preserve its resistance to Dutch elm disease and phloem necrosis, we have now what we believe is the largest stock of liners in the U. S.

This is the elm that was introduced from Holland by the U. S. D. A. a number of years ago and distributed by them to the trade in 1949, 1950 and 1951. When repeatedly tested by the U. S. D. A., it was found to be highly resistant to both phloem necrosis and Dutch elm disease. It is bound to become a valuable replacement for the American elm. **Hardy at the Morton Arboretum near Chicago.**

Buisman elm is a selection of the European smooth-leaved elm. It has a straight trunk with slender ascending branches that form a pyramidal head, or sometimes spreading and forming a round-topped head. The foliage is dark green.

Get started with this valuable shade tree now!

18 to 24 ins., field-grown.....	Per 100
12 to 18 ins., field-grown.....	\$100.00
6 to 12 ins., field-grown.....	75.00
2-in. pot plants.....	65.00
	50.00

(30 at 100 rate)

ZELKOVA SERRATA

(Japanese Keaki Tree)

A new shade tree from Japan. Foliage and habit of growth resembles small-leaved elms. Graceful, round-headed trees, well adapted to lawn and street planting. Hardy in northern states and resistant to Dutch elm disease. Has been growing in the Arnold Arboretum for many years.

2-in. pots plants.....	Per 100
	\$50.00

(30 at 100 rate)

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- Juniper, Pfitzer, 12 to 15 ins.... 1.35

Complete line of Taxus, Junipers, etc., also shrubs, trees and potted roses. Send for our wholesale price list.

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\$ 45.00 per 10

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30 trees at the 100 rate

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**Ornamental Evergreens
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Potted February, 1954

Per 100
2-in. rose pot, 4 to 6 ins. **\$18.00**
1 1/2-in. rose pot, 3 to 5 ins. **15.00**

EDWARD GILSON & SON NURSERY
U. S. Rt. 20 PERRY, O.

building. Registration will get under way at 2 p. m., Sunday, June 5. That evening, an old-fashioned barbecue will be given by local nurserymen on top of the mountain at Chewacla state park.

Monday morning, following registration of latecomers and a tour of exhibits, the program will be under way in the ballroom of the Auburn Union at 9:30 o'clock.

WASHINGTON STATE DATES

The Washington State Nurserymen's Association will hold its summer meeting August 22 to 24, at Gaffney's Lake Wilderness resort, near Renton, Wash.

FLORIDA GROWERS' PLANS

The annual convention of the Florida Nurserymen and Growers Association will be held at the Colonnades hotel, Riviera Beach, Fla., May 15 to 17. Located immediately north of Palm Beach, Riviera Beach offers everything peculiar to the famous Palm Beach facilities, plus a real southern welcome.

President Hugh Lalor, Opa Locka, appointed Roy S. Rood, Jupiter, general chairman of the 1955 convention at a special meeting in West Palm Beach. As president of the Palm Beach County chapter, Mr. Rood is promising a program of instruction and entertainment that will excel that of previous years. The management of the Colonnades hotel has extended special room rates to all attending the convention in May, at \$6 per day single and \$8, double.

The association extends a hearty invitation to all in the trade, whether members or not, to join with the group for the three days and enjoy the program and good-fellowship. Allied tradesmen will display products and explain services of interest.

Mr. Rood has indicated his group will take advantage of the exclusive women's shops in Palm Beach to arrange a top-notch fashion show for the ladies. Also included for the wives will be pool and beach parties, tours of the area and other entertainment.

NEW JERSEY MEETING

Howe Nurseries, Pennington, N. J., will be host to the Association of New Jersey Nurserymen, August 10, for the annual all-day meeting of the association. William P. Howe, Jr., general manager of the Howe Nurseries, has been a member of the association's board for the past 18 years.

NORTHERN-GROWN STOCK

Dug, graded and packed for growing satisfaction.

3-YR. SEEDLINGS

	Per 100	Per 1000
Douglas Fir, 4 to 6 ins. . .	\$3.50	\$30.00
White Pine, 4 to 6 ins. . .	3.00	25.00
Ponderosa Pine		
8 to 12 ins.	3.50	30.00
6 to 8 ins.	3.00	25.00
American Arborvitae		
4 to 8 ins.	3.00	25.00

2-YR. SEEDLINGS

American Arborvitae		
2 to 4 ins.	2.50	20.00
Colorado Blue Spruce		
3 to 4 ins.	3.00	25.00
In 10,000 lots		20.00
White Spruce		
2 to 4 ins.	2.50	20.00
Black Hills Spruce		
2 to 4 ins.	3.00	25.00
Norway Spruce, 2 to 4 ins. . .	3.00	25.00
Scotch Pine, 2 to 4 ins. . .	2.50	18.00
Austrian Pine, 2 to 4 ins. . .	3.00	25.00
Ponderosa Pine		
3 to 4 ins.	2.50	20.00
Douglas Fir, 2 to 4 ins. . .	3.00	25.00
White Pine, 2 to 4 ins. . .	2.50	20.00

*If better seedlings can be grown,
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TREES FOR AMERICAN GARDENS

By Dr. Donald Wyman

Presents 745 recommended trees, giving botanical and common names, showing hardiness zones and maturity height. Describes desirable varieties. Discusses hardiness, bloom, ornamental fruit, foliage colors and trees for various purposes. Colored maps show hardiness zones. Secondary list of 1,500 species and varieties. 376 pages. (1951).

Price, \$7.50

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Heavy, well-grown potted plants.
Suitable for field planting.

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AMERICA'S BEST SOURCE FOR

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A committee has been appointed to make all arrangements. Besides Mr. Howe it includes Albert Flemer, Springfield; William Flemer III, and Russell Bettes, Princeton; Cornelius Hess, Mountainview, and Allen Field, Jr., Red Bank. In addition to representatives from the 150 member firms in the New Jersey association, many out-of-state guests from the central Atlantic area are expected to attend the meeting.

June 30 has been set as a tentative date for the landscape tour conducted by the association's better planting committee, in the neighborhood of Turner Bros. Nursery. If the earlier date turns out a rainy day, July 7 is set as the alternate date. Stanley McIntosh will be chairman of this year's tour.

OREGON MEETING

The Oregon Association of Nurserymen will hold its fall meeting September 7 to 9 at the Gearhart hotel, Gearhart, Ore. A recreational type of program is planned, with golf and an informal mixer opening the event. A highlight of the meeting will be a clambake on the beach the second evening.

LILAC TIME AT ROCHESTER

Ever since John Dunbar, eminent Scotch horticulturist, set out 1,000 of the shrubs in Highland park, at Rochester, N. Y., lilacs have played an increasingly important role in the springtime festivities of the city. For 40 years, starting in 1908, Lilac Sunday was officially observed, with each year enhancing the interest and the number of people crowding the lilac display area. Then in 1948 the Rochester city council adopted the lilac as the official flower of the city and decreed the observance of a week's festival to be known as Lilac Time. This usually, but not always, falls during the third week in May, when the greater part of about 500 varieties are at their prime. Of course, this is not a fixed date, and the beginning of the festival cannot be determined in some seasons longer than four or five days before the celebration begins.

The average date at which the lilacs are at their best in the locality is May 24. They have been known, however, to be in full bloom as early as the last week in April and as late as the first week in June.

Rochester is situated in a pocket where the weather does not follow any set pattern in relation to western New York. Consequently the time

ORNAMENTAL SHRUBS

We can still supply the following if you act quickly.

- | | |
|---|--|
| Barberry, Green-leaved, 18 to 24 ins. | Privet, Amur River North, 3 canes, 18 to 24 ins. |
| Barberry, Truehedge Columnberry, 18 to 24 ins. | Privet, Ibolium, 2 to 3 ft. |
| Barberry, Truehedge Columnberry, 2 to 2 1/2 ft. | Privet, Ibolita Vicari, 18 to 24 ins. |
| Cydonia Japonica Rubra, 18 to 24 ins. | Privet, California, 18 to 24 ins. |
| Dogwood, Yellow, 18 to 24 ins. | Privet, Regal, 2 to 2 1/2 ft. |
| Euonymus, Radicans Erecta, 18 to 24 ins. | Privet, Thompson, 3 to 4 ft. |
| Honeysuckle, Fragrantissima, 2 to 3 ft. | Privet, Thompson, 2 to 3 ft. |
| Honeysuckle, Fragrantissima, 18 to 24 ins. | Physocarpus Opulifolius Nana, 3 to 4 ft. |
| Honeysuckle, Zabeli, 18 to 24 ins. | Physocarpus Opulifolius Nana, 2 to 3 ft. |
| Honeysuckle, Tatarian Pink, 3 to 4 ft. | Redbud, 18 to 24 ins. |
| Honeysuckle, Tatarian Red, 3 to 4 ft. | Rhodotypos Kerroides, 2 to 3 ft. |
| Honeysuckle, Tatarian White, 18 to 24 ins. | Rhus, Cut-leaved, 18 to 24 ins. |
| Lilac, Rothomagensis, 4 to 5 ft. | Salix Purpurea, 2 to 2 1/2 ft. |
| 3 to 4 ft. | Spirea Billardi, 18 to 24 ins. |
| 2 to 3 ft. | Spirea Froebeli, 2 1/2 to 3 ft. |
| Philadelphus Belle Etoile, 18 to 24 ins. | 2 to 2 1/2 ft. |
| Philadelphus Coronarius, 2 to 3 ft. | 18 to 24 ins. |
| Philadelphus Bouquet Blanc, 18 to 24 ins. | Spirea Thunbergi, 2 to 3 ft. |
| Philadelphus Grandiflorus, 2 to 3 ft. | Spirea Thunbergi, 18 to 24 ins. |
| Philadelphus Grandiflorus, 18 to 24 ins. | Spirea Van Houtte, 18 to 24 ins. |
| Philadelphus Lemoine, 18 to 24 ins. | Spirea Arguta, 3 to 4 ft. |
| Philadelphus Innocence, 2 to 3 ft. | Spirea Arguta, 18 to 24 ins. |
| Philadelphus Innocence, 18 to 24 ins. | Symphoricarpos Chenaulti, 2 to 3 ft. |
| Philadelphus Virginialis, 18 to 24 ins. | Symphoricarpos Chenaulti, 18 to 24 ins. |
| Privet, Amur River North, 3 canes, 2 to 3 ft. | Viburnum Dentatum, 2 to 3 ft. |
| | Weigela Newport Red, 3 to 4 ft. |
| | Weigela Newport Red, 2 to 3 ft. |

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LANDSCAPE MATERIAL

Juniper, Pfitzer

12 to 15 ins.
15 to 18 ins.
2 1/2 to 3 ft.

Juniper, Andorra

12 to 15 ins.
15 to 18 ins.
18 to 24 ins.

Cornus florida

3 to 15 ft.

Cornus rubra

4 to 5 ft.

Rhododendron maximum (collected)

18 to 24 ins.

24 to 30 ins.

Kalmia latifolia (collected)

18 to 24 ins.

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Juniper Grafts

	Each
Canaerti	35c
Blue Haven	35c
Pathfinder	35c
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Green and Silver Gareii Cypress grafts (grafted on arborvitae) also 35c each. Minimum order 100 grafts.

Red Cedar

S., 1-yr., 3 to 5 ins. ... \$15.00 per 1000

No order for less than 1000.

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QUALITY LINERS JUNIPERUS

	Each	Each
	per 100	per 1000
Glauca hetzi		
Andorra		
Vonehron		
4-yr., 6 to 9 ins.	\$0.45	\$0.40
4-yr., 9 to 12 ins.55	.50

No packing charge.



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"America's Finest"

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Springbrook Gardens
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set is a matter of judgment as to weather conditions and the condition of the plants.

NEWARK ROSE FESTIVAL

The 24th annual rose festival at Newark, N. Y., will be held June 12 to 26. Most of the events will be held in the 17-acre Jackson & Perkins Co. public rose garden, where more than 36,000 rosebushes are set out in formal and informal plantings.

Events planned are as follows:

June 12—Coronation of rose princess in amphitheater adjoining the Jackson & Perkins rose garden, 2:30 p. m.

June 17—Al Sisson day, in the rose garden.

June 18—Festival of Roses parade, through the streets of Newark.

June 19—Sampson Air Force day, in the rose garden.

June 22—State Garden Club day, in the garden house, 11 a. m.

June 23—Senior Citizens' day, in the rose garden amphitheater, 2:30 p. m.

June 24—Governor's day, ceremony to honor New York state's official flower, the rose.

June 25—American Rose Society day, in the garden house, 9 a. m.

June 26—National Flower day, ceremony to honor Sen. Margaret Chase Smith and Rep. Frances P. Bolton.

MICHIGAN TRAINING COURSE

A 2-year course in nursery and landscape management training at Michigan State College, East Lansing, is designed to appeal to young men who wish to prepare for positions as foremen or superintendents with nurseries, landscape construction firms, private estates, parks, cemeteries and industrial grounds.

The course consists of four 12-week terms of on-campus resident work, in fall and winter, when students learn the fundamentals of ornamental horticulture practices, and two 6-month periods of placement training, in spring and summer, when students have the opportunity to apply their knowledge and gain dexterity in the physical skills employed.

The training program includes 21 courses in landscape architecture, horticulture, botany, entomology, soil science, forestry, agricultural engineering and business administration. In order to be admitted to the nursery and landscape management training course, prospective students must be high school graduates or have satisfactory work experience and be at least 19 years old. Out-of-state students must file applications with the college's out-of-state committee. The course fee for the term of resident instruction is \$60, and for the term of placement training, \$10. Out-of-state students pay an additional fee of \$75 a term of resi-

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**FLOWERING CRABS
ORNAMENTAL TREES
and SHRUBS**
Fruit Trees and Berries
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**Complete Selection
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NURSERY COMPANY
SINCE 1872
FARIBAULT, MINN.

COMPLETE ASSORTMENT OF

Evergreens, Fruit Trees, Shade
Trees, Roses and Lining-out Stock.

Write for complete list.

ONARGA NURSERY CO.
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Hydrangea P. G.
Hydrangea P. G. (Tree Form)
Ornamental Trees
Grapevines, 1-yr.

Thorne Brewster

WILLOWBEND NURSERY
PERRY, O.

ORNAMENTALS TREES SHRUBS EVERGREENS

Wholesale growers of a
general assortment for
the best landscape plantings.

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Over 100 Years' Nursery Experience

ILGENFRITZ
NURSERIES, Inc.
The Monroe Nursery
MONROE, MICHIGAN
GET THE BEST BUY ILGENFRITZ

dent instruction. Board and room in college housing is approximately \$215 per term.

Karl Zendt, who is enrolled in the nursery and landscape training course described here, was one of four students who recently received highest honors in training courses at the college. On completion of his course, Karl plans to go into business with his father at Zendt's Landscaping, Mount Clemens, Mich., a landscape construction and maintenance company.

ALL-PURPOSE SPRAY PROGRAM

The latest issue of Michigan State Nursery Notes, No. 8, for March, 1955, is devoted entirely to instructions for spraying for the control of insects and diseases in the nursery. A simplified all-purpose spraying program, using three applications—in May, June and July—is given, as well as the instructions for preparing the spray in large or small quantities.

The departments of entomology, botany and plant pathology and horticulture at Michigan State College, East Lansing, joined in compiling this program, it is said. To provide the maximum assistance, the 4-page release contains special instructions for controlling about 50 of the most common causes of injury in tabular form on two pages, listing the pest, the plants attacked, the spray formula to be used and times for application of the spray. Reading references, precautionary techniques and a table of dilutions of spray materials mentioned are additional helpful features of the publication.

CLARA FIORE WEDS

Clara Maria Fiore, daughter of Mr. and Mrs. Charles Fiore, of the Charles Fiore Nurseries, Prairie View, Ill., was married April 16 to Frank Zanzola, at Highwood, Ill.

Her eldest brother, John Fiore, and Mrs. Fiore gave a breakfast in their Highland Park home. A banquet in the afternoon was served at the Moraine hotel, Highland Park, after which a reception was held at the Highwood community center, transformed into a spring garden by decorations of blooming shrubs and bulbous flowers.

The nurseries were closed April 16 and 17 for the event, as was announced to customers in a display advertisement in the Chicago Tribune.

The bride's father attended the festivities except the reception, his first appearance since he was taken

VIBURNUM LANTANA

(Wayfaring Tree)

	Per 100	Per 1000
2-yr., 9 to 12 ins., S.	\$10.00	\$ 85.00
2-yr., 12 to 18 ins., S.	14.00	125.00

Exceptionally well rooted.

Straight as a bean pole.

Wire for rush shipment.

EVERGREEN NURSERY CO.

STURGEON BAY, WIS.

ARMINTROUT'S EVERGREEN NURSERY

Route 1 ALLEGAN, MICH.

We wish to thank our many customers for a very successful spring. We are mostly sold out but have a few items (listed below) you may wish. We still say "Don't buy a dollar tree with a ten-cent root".

	Per 100	Per 1000
10,000 European White Birch (Betula Alba Pendula), 2-0, 6 to 12 ins.	\$5.00	\$25.00
10,000 Austrian Pine, 2-2, 6 to 8 ins.	7.50	45.00
5,000 Mugho Pine, 3-0, 2 to 4 ins.	4.00	20.00
Mugho Pine, 3-0, 4 to 6 ins.	6.00	30.00
100,000 Norway Spruce, 2-0, 2 to 4 ins.	3.50	15.00
5,000 Norway Spruce, 2-2, 3 to 5 ins.	6.50	35.00
5,000 Serbian Spruce, 2-0, 3 to 5 ins.	7.00	50.00
White Spruce, 2-0, 6 to 8 ins.	5.50	30.00

TERMS

25 per cent with order, balance C.O.D. Orders taken in sequence subject to correctness of inventory. 50 and 500 of a size and kind sold at the 100 and 1000 rate.

FOR QUICK SALE

MAHONIA AQUIFOLIUM

We have more Oregon Holly liners than we realized. Specimen stock.

SUNNYVIEW NURSERIES

Rt. 84 Lake Co. PERRY, O.

to the hospital after suffering a heart attack at the Chicago convention in January. He has been at home lately under a nurse's care.

Frank Zanzola has been with the nursery firm since the first of the year. His father was a schoolmate of the bride's father in Italy.

NORTHERN-GROWN STOCK

Evergreen Liners
Bleeding Hearts
Ornamental Shrubs
Fruit Trees
French Lilacs
Philadelphus Minnesota Snowflake
(Plant Patent No. 538).

Send for list.

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PLANT NOTES HERE AND THERE

By C. W. Wood

During the past two weeks several requests for information on a varied list of rock garden plants have come in; so I am bringing them together here for answering as far as that is possible.

The first request concerns *Bartsia alpina*, a plant I never have been able to reconcile to garden ways; so I shall have to depend upon hearsay in the answer. In the first place, this *bartsia* seems to need more moisture than my dry garden can ordinarily supply. In the case of most plants the problem can usually be overcome by means of irrigation, but it is not so with *bartsia*. And that is probably to be accounted for by the plant's supposedly parasitic nature. I say "supposedly parasitic nature" because it has not been definitely established, as far as I know, though it is not difficult to believe when one remembers the plant's close relationship to known parasites, like *castilleja* and *gerardia*. Anyway, do not put too much faith in anything of a complimentary nature that you may read about the garden behavior of *bartsia* until it has been checked and double checked in your trials. It is said to make a little tuft of purplish leaves, from which spring little purplish spires in spring, but of that I cannot say.

I am afraid, too, that my Kentucky friend will find little but heartaches from his attempts with *Rubus arcticus*, for it is a child of cool, northern, peat bogs and seems to resent the heat of the middle west. Even this far north (latitude 45 degrees) I find that this *rubus* sulks when taken away from its cool bogs, though it can be made happy in a pretty shaded spot in the rock garden if given a peaty soil and some water in dry weather. It should then give one much pleasure with its bronzy-green trifoliate leaves on unarmed stems of three to five inches, rosy-pink flowers that are large for the size of the plant and pleasant fruits. Propagation is from seeds, when available, from divisions or from root cuttings.

I talked recently to a woman who grew up in Quebec, Que., where *Rubus arcticus* and its near relative, the yellow-fruited cloudberry, were

plentiful, and she said that fruits of these two plants played a large role in the domestic economy of the people of that section, both for canning and drying. *Arcticus* would have to be more fruitful than I have seen it if one were to depend upon it for food, and that may be explained by the fact that it and other species of the *chamemorus* section of *rubus* may be either monoecious or dioecious, which in turn may explain the statement that one sometimes reads that European gardens have a heavy-fruited strain which is known as variety *fecundus*.

Edraianthus serpyllifolius is a Balkan *campanula* cousin, not entirely hardy in this cold northern country, but undoubtedly it would be able to go through anything that our correspondent's Virginia winters have to offer. It is a little charmer, spreading out a low mat of thyme-like leaves,

hidden under a low canopy of glorious violet upturned bells, making a picture long to be remembered and giving a performance not to be outdone by any of the lesser *campanulas* or *campanula* cousins that I know.

All that is to be had for little trouble, according to experience here. It grows in any well-drained garden soil in sun, if moisture is available when the weather becomes dry, or in part shade in a leafy soil, if it is going to have to take its chances when drought overtakes it. Propagation is perhaps best from cuttings taken in July and August. Do not be in too big a hurry to take the cuttings before they are large enough or firm enough. Pot in a leafy mixture and keep the cuttings in a protected frame during the first winter. There is a variety, major, which the trade should have.

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about *Polemonium humile* and I try to get the tangle of names straightened out in the old head, I wind up being more confused than ever. Even with Dr. Wherry's account of the genus, which he kindly sent me a few years ago when he saw how confused I was when I tried to write about the plants which I then had under trial, I remained confused, not because Dr. Wherry is ambiguous, but rather because I am dense. So when the Colorado letter arrived, I went through all the literature and came out of it with the conviction that the plant the writer referred to as *humile* was really a small form of *P. pulcherrimum*. During the years that I have been interested in the genus, I have seen this plant under a number of names, including *P. pulchellum*, *pulcherrimum*, *humile*, *richardsoni*, *lanatum* (patently false, because the plant is never woolly), *parvifolium* and *humile* used as a varietal name to all these and perhaps others. The plant my correspondent inquired about is probably no more than plain *P. pulcherrimum*, and it could be worse than that, because plain *pulcherrimum* is one of the loveliest of the easy Jacob's-ladders. Our correspondent and all others interested in the subject may rest assured that *P. pulcherrimum*'s slender stems, six to eight inches tall, bearing large, white-throated, blue saucers will be ample reward for the little care needed to keep it going. That care will include as cool a retreat as possible, with some watering in dry weather.

Hardy Aster, Janet McMullen

All of the large-flowered hardy asters originated by English plant breeders that I have seen have been outstanding in many ways, including size of flower and clarity of color. The pinkish-lavender *Peace*, the clear soft blue *Plenty* and the deep violet-blue, double *Eventide* are examples which come to mind. Now add another beauty under name of Janet McMullen, whose double, pink flowers, larger than a silver dollar, are freely produced.

Some Thoughts on Bleeding Hearts

The bleeding heart, *Dicentra spectabilis*, needs no introduction from me, because it is known to most nurseryman readers, I am sure. Yet being known and being used in gardens are two different things; in any event, the bleeding heart is seen in gardens less often than it should be, perhaps mainly because of a lack of knowledge of its cultural needs among amateurs. At least that is the inevitable conclusion after interview-

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12 for	\$8.50	100 for	\$60.00

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ing gardeners on the subject for several years. Nor do commercial growers, excepting a few specialists, make so much of the plant as they could.

The bleeding heart is much more adaptable than is generally supposed. It is best, of course, in rich moist soil, but it will persist in a fair degree of health and good looks in a poor, dry soil if it is given moisture during its growing and blooming periods. With lack of moisture come an early dying down of the foliage and an increasing lack of vigor.

The principal reason, I am told, why the bleeding heart is not more often seen in small nurseries is because it is hard to propagate. It has to be admitted that the plant does not lend itself to the rapid multiplication of which some other plants are capable, yet it cannot truthfully be called difficult. Anyone with ordinary facilities should be able to carry out the following program: Dig clumps just before growth commences on the plants in the open. After washing the soil from the roots to make the work easier and surer, divide the clump into as many pieces as there are buds that can be cut away with a few small roots attached. Plant the divisions in flats of light soil and keep them in a frame, where moisture and other growing conditions are under control, until they are strong enough to line out.

Often a root piece will show up with several buds but not enough roots to take care of all the buds; these pieces may be potted up, and, after new growths are large enough to handle, they may be rubbed off and rooted in a shaded propagating bench. Save all roots not needed on the divisions; cut these into 3-inch lengths and place them in flats of light soil. Not all will make plants, because not all will have the adventitious buds needed to make new growths, but nearly always there will be a sufficient number to pay for the work.

Pyrenean Columbine

I have a weakness for all columbines, and, notwithstanding the

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shortness of life found in so many kinds, I should, if I were building a new garden, make provisions for many of them. Among them, the little Spaniard, *Aquilegia pyrenaica*, would surely be included. In my experience, it was not the easiest of the dwarf kinds, as it is often stated in the catalogs, but it grows easily enough in a well-drained, light soil that has been sweetened with a little lime, and in light shade. It is longer-lived than most columbines and would be worth growing for its large,

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Hemming Strain Blight-Resistant Trees

	Per 10	Per 100	Per 1000
12 to 18 ins.	\$2.50	\$22.50	\$200
18 to 24 ins.	3.50	32.50	300
2 to 3 ft.	6.00	55.00	500
3 to 4 ft.	7.50	70.00	650

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deep blue flowers with centers of conspicuous yellow stamens, even if it had to be planted every year. Grow this columbine from seeds.

Digitalis Ambigua

A correspondent asks if there are any perennial foxgloves. The answer is: Yes, there are several kinds that are more or less perennial, though few would likely be hardy in the inquirer's Wisconsin climate. However, the one which heads this paragraph should serve the purpose.

SPRING, 1955

Fruit trees, shrubs, shade trees,
ornamental trees, evergreens and taxus.

QUANTITIES IN:

Arborvitae, Aurea Nana
Arborvitae, Dark Green American
Berberis Mentorensis
Birch, Weeping Cut-leaved
Cornus Florida
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Crab Apple, Flowering
Euonymus Alatus Compactus
Euonymus Patens
Euonymus Vegetus
Juniperus Canadensis
Juniperus Columnaris
Juniperus Glaucia
Juniperus Ketelersii
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Digitalis ambigua is evidently widely distributed over Europe and western Asia, where it grows under a wide range of conditions in both sun and shade. That ability to get along under varying conditions makes it valuable to planters of gardens, especially if one has to contend with shady situations. I never realized the usefulness of this plant in shaded areas until I saw it in a large planting in an open woodland a few years ago, where it lighted up the scene with its 3-foot spires of ivory-yellow flowers and was particularly effective where it was grouped against a background of taxus. Grow this *digitalis* from seeds, handling it like ordinary perennials, perhaps protecting the plants in winter, if the climate is cold, at least until its ability to cope with the winters is established.

In the planting referred to in the note on the foxglove there were several large groups of the two *gillenias*, *G. stipulata* and *G. trifoliata*, which prompts a few words in their praise. Although neither kind would be chosen for showiness, the unassuming beauty of foliage and pinkish-white stars on 2-foot stems would surely attract any gardener.

Hosta Honeybells

Although *Hosta Honeybells* has been in the garden only since spring of 1954, I am ready to agree with the source of my plants when its catalog calls it "the finest shade-loving plant that has been offered in many years." I was not disappointed when my plants did not make the 3-foot spikes they are supposed to produce, but they should do close to that this year if I do not forget to water them. The plant makes a generous clump of pretty green leaves, handsome enough in itself to justify cultivation, but when it sends aloft its tall spikes of indescribably lovely, lavender-blue bells in late July and August it is really something to behold. Like other *hostas*, it needs a rich soil, plenty of moisture in well-drained soil and some shade. A delightful fragrance adds to the value of the subject.

Veronica Icicle

When I said in this column three years ago that the new *veronica*, *Icicle*, had all the earmarks of a comer I did not realize how wisely I spoke. Now it can be said, I think, that this new speedwell is a most important new perennial—one that will make money for the grower for years to come. It has many of the good points of the perfect perennial, including ironclad

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250 9 to 12 ins.60	.55	.50
50 6 to 9 ins.40	.35	.30
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900 9 to 12 ins., TTT.50	.45	.40
JUNIPERUS PFTIZERIANA (Pfitzer Juniper)			
1500 12 to 15 ins., TTT.85	.80	.75
5000 9 to 12 ins., TTT. ....	.65	.60	.55
JUNIPERUS SABINA (Savin Juniper)			
2000 9 to 13 ins., TTT. ....	.65	.60	.55
1000 6 to 9 ins., TTT.45	.40	.35
JUNIPERUS VIRGINIANA (Red Cedar)			
5,000 18 to 24 ins., R.P.35	.30	.25
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PICEA EXCELSA (Norway Spruce)			
10,000 6 to 9 ins., R.P.00	.07	.05
2,000 4 to 6 ins., R.P.07	.05	.03½
PINUS BANKSIANA (Jack Pine)			
2000 12 to 18 ins., R.P. ....	.20	.15	.12
2000 9 to 12 ins., R.P. ....	.10	.08	.06
PINUS NIGRA (Austrian Pine)			
20,000 12 to 18 ins., R.P. ....	.30	.25	.20
30,000 9 to 12 ins., R.P. ....	.12	.10	.08
20,000 6 to 9 ins., R.P. ....	.00	.07	.05
PINUS PONDEROSA (Bull Pine or Western Yellow)			
10,000 12 to 18 ins., R.P. ....	.30	.25	.20
20,000 9 to 12 ins., R.P. ....	.12	.10	.08
7,000 6 to 9 ins., R.P. ....	.09	.07	.05
PINUS SYLVESTRIS (Scotch Pine)			
2,500 12 to 18 ins., R.P. ....	.20	.17	.15
10,000 9 to 12 ins., R.P. ....	.10	.08	.07
4,000 6 to 9 ins., R.P. ....	.06	.06	.05
THUJA OCCIDENTALIS WOODWARDI (Woodward's Globe)			
1500 6 to 9 ins., TTT. ....	.40	.35	.30
THUJA ORIENTALIS COMPACTA (Chinese Arborvitae)			
5000 9 to 12 ins., R.P. ....	.15	.12	.10
5000 6 to 9 ins., R.P. ....	.13	.09	.07
THUJA ORIENTALIS (Chinese Arborvitae)			
4000 12 to 15 ins., R.P.15	.12	.10
4000 9 to 12 ins., R.P.12	.09	.07
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Phlox Stolonifera Blue Ridge

While I am speaking of new things, I might well say a few words about a new creeping phlox that is reaching the trade under the name Phlox stolonifera Blue Ridge. I have not grown it; so I cannot say anything about its hardiness. The type, stolonifera, from the northern part of its range in Pennsylvania, was perfectly hardy here in northern Michigan, though collections from Alabama could not take the cold. I have reports from New Jersey and northern Ohio to the effect that this phlox has been hardy there; so it should be safe in most sections. The plant has a splendid habit, creeping over the ground like the type and sending up 3-inch stems with clusters of lovely blue flowers in May and June. The plant needs shade and probably will do best in damp soil, like the type, though the latter gets along well in dry soil also.

COLORADO SHORT COURSE

When Colorado nurserymen recently held their second annual short course at Fort Collins, on the Colorado A and M College campus, all officers of the Colorado Nurserymen's Association were re-elected except Carl Schulhoff, whose place as secretary-treasurer was filled by Clif Morgan, Williams Garden, Greeley. Other officers are: President, Al Foster, Kroh Bros. Nurseries, Loveland; vice-president, Stanley Brown, Alameda Nursery, Denver, and executive secretary, Edna Schulhoff, Denver. Directors are Paul Bradford, Bradford Flowerland, Denver; Roy Woodman, Woodman Bros. Nursery, Littleton; Carl Ferguson, Northern Nursery Co., Denver, and Wayne Nuzum, Nuzum Nurseries, Boulder.

The 2-day meeting featured talks by Colorado A & M horticulturists, entomologists and economists and prominent members of the industry. In discussing "New Insecticides for Ornamental Plants," Gordon Mickle, extension entomologist, asserted that three important points in spraying are: Use a safe material, obtain good coverage and apply the spray at the right time. DDT is still an effective spray, with the common housefly one of the few pests that has developed an immunity. Malathion with its

WEeping BIRCH

(Betula laciniata)

Well-branched; very fibrous roots.

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8 to 10 ft.	3.00	2.75	2.65

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Cortland; McIntosh; Delicious; Duchess; Spy; Wealthy; Yellow Transparent.

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5/16 to 7/16-in. cal.			
3 ft. and over.	85c	75c	70c

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(Flame Azalea)

	Per 100	Per 1000
6 to 12 ins., clumps.	\$10.00	\$ 90.00
12 to 18 ins., clumps.	15.00	110.00

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12 to 18 ins., with T. roots.	6.00	50.00
18 to 24 ins., with T. roots.	7.50	60.00

VINES

HALL'S HONEYSUCKLE

6 to 12 ins., medium clumps	4.00	35.00
12 to 18 ins., heavy clumps	5.00	40.00

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Medium clumps	4.00	35.00
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long residue effect, is among the most effective new materials for use on many ornamentals.

Speaking on "Propagation of Hardwood Cuttings," Carl Jorgensen, associate professor of horticulture, said that nearly all woody ornamental shrubs, including grapes, currants, gooseberries, willows, poplars, dogwood and forsythia, can be grown from hardwood cuttings. Hardwood cuttings should not be made when the sap is frozen, he cautioned. It is best to make cuttings in the fall, since tissues may be winter damaged in some areas. Mr. Jorgensen pointed out. Cuttings should be made six to 10 inches long, with three buds, tied in bundles of 50 to 100 and laid in a constantly moist medium, sand or similar material, with the bed mulched to prevent serious freezing. Cuttings should be well watered the first year after planting.

F. Herbert Gates, state entomologist, explained changes to be made in the Colorado nursery law. The present bond requirement is to be discontinued, and a license fee will be set for all retail nurserymen, dealers and agents in Colorado. The licensing will not apply to wholesale companies selling to licensed nurseries or licensed dealers only.

The landscape materials and design panel had Charles M. Drage as moderator and included Carl Jorgensen, George Beach and Glenn Kinghorn. Mr. Jorgensen suggested that nature be copied in the use of many shrubs of only two or three kinds instead of using one or two of several varieties. He showed slides of properties planted incorrectly, some of which demonstrated the undesirable use of blue spruce in front of modern 1-story houses, where the growth eventually became too large for the position. The speaker also showed plantings where globe J. scopulorum or virginiana had been planted, then forgotten and left to grow into an upright tree. Professor Jorgensen suggested that annuals be used the first year and these be followed by perennials and shrubs. The windbreak can be beautiful as well as useful, he said, with proper selection of materials.

Glenn Kinghorn produced sketches in different colors and recommended the use of crooked trees and shrubs for particular effects. Mr. Kinghorn urged the use of upright crab apple trees for the Colorado area rather than the taller Lombardy or bolleana poplars.

Prof. George A. Beach pointed out the desirability of planning landscapes to please women, since women

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Bellamosum, dk. blue	1/4 oz.	.70	1.25
Blackmore & Langdon Hybrids	1/4 oz.	.90	2.10
Cardinal, scarlet	1/4 oz.	.85	1.75
Gold Medal Hybrids	1/4 oz.	.70	1.25
Lamartine	1/4 oz.	.90	2.10
Wrexham (Hollyhock-fl.), mixed	1/4 oz.	1.00	2.50
Pacific Giants Hybrids			
Astolat, bluish to raspberry-rose (dk. B)	1/4 oz.	2.75	15.00
Blue Bird, clear medium blue (white B)	1/4 oz.	2.25	7.50
Blue Jay, clear medium blue (dk. B)	1/4 oz.	2.25	7.50
Camellard, pure lavender (white B)	1/4 oz.	2.25	7.50
Galahad, glistening white (white B)	1/4 oz.	2.25	7.50
Gulnereve, lgt. pinkish-lavender (w. B)	1/4 oz.	2.25	7.50
Lancelot, clear lilac self (w. B)	1/4 oz.	2.25	7.50
Percival, white (dk. B)	1/4 oz.	2.25	7.50
Summer Skies, clear lgt. blue (white B)	1/4 oz.	2.25	7.50
mixed	1/4 oz.	1.50	4.50

PANSY

Trimarceau Giants, mixed	1/4 oz.	.75	1.25
America, early-fl., mixed	1/4 oz.	.85	1.75
Maple Leaf Giants, mixed	1/4 oz.	1.15	3.00
Swiss Giants			
Alpenglow, cardinal to wine-red	1/4 oz.	1.65	5.00
Adria, navy-blue	1/4 oz.	1.65	5.00
Berna, dk. velvety violet-blue	1/4 oz.	1.65	5.00
Blumisalp, rose	1/4 oz.	1.65	5.00
Coronation Gold	1/4 oz.	1.65	5.00
Flame, bronze-colored	1/4 oz.	1.65	5.00
Jungfrau, pure white	1/4 oz.	1.65	5.00
Lake of Thun Swiss Blue	1/4 oz.	1.65	5.00
Luna, clear sulphur-yel.	1/4 oz.	1.65	5.00
Orange, apricot to deep orange center	1/4 oz.	1.65	5.00
Rhinegold, canary-yellow with dk. brown blotches	1/4 oz.	1.65	5.00
Silverbride (Mont Blanc), silvery-white and violet blotches	1/4 oz.	1.65	5.00
Winered (Claret)	1/4 oz.	1.65	5.00
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mixed	1/4 oz.	1.50	4.50
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do most of the buying. He urged landscape designers to meet the needs of the family and make grounds more livable.

In his talk on "The Business Outlook," Avery Bice, extension economist, Colorado A. and M. College, predicted a bright outlook for nurserymen in the Colorado area because of new industry, migration of ranchers to towns, immigration from eastern areas for reasons of health and decentralization programs.

A talk entitled "How to Sell," by Byron Lopp, publicity director, Central Bank & Trust Co., Denver, was perhaps the most entertaining and educational part of the course. Mr. Lopp showed nurserymen how, by classifying people into four different body types, they could analyze customers and appeal to their natural likes, for easier and faster selling. Mr. Lopp declared that the fat or circular type enjoys comfort, while the triangular slender type is quick, sensitive and high strung and wants up-to-date ideas. The oblong or rawboned type is orderly, deliberate and hard to know, while the square or muscular type is a practical individualist, simple in tastes and eager to learn facts.

"Starting Roses for Spring Sales," was the title of a talk by W. D. Holley, associate horticulturist, Colorado A. and M. College. He stated that a good soil is one that takes water and does not puddle — holds moisture and lets in air for the roots. Colorado soil needs two pounds of treble superphosphate to one cubic yard of soil, but no potash. Mr. Holley also said that approximately 50,000,000 roses are sold each year. He advised nurserymen to grow No. 1 roses and start them seven to eight weeks before the selling date. Plants should be placed in a cellar or moist place for three or four weeks to stimulate root growth.

"Canned Nursery Stock," a talk by Kerneth Haysler, Cloverset Flower Farm, Kansas City, Mo., was the last feature of the 2-day meeting. Mr. Haysler said that 60 per cent of nursery stock is sold by department stores and that nurseries must therefore provide a better quality of stock than do stores. This objective can best be reached by selling canned nursery stock, Mr. Haysler declared. He urged nurserymen to buy the best stock and believe in it, then advertise and tell people about the nursery. He told the nurserymen to display canned stock in attractive ways and with ease of handling and to educate customers to appreciate first-class stock.

W. B. N.

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CALIFORNIA ASSOCIATION OF NURSERYMEN

ELMER J. MERZ, Executive Secretary
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C. A. N. DIRECTORS MEET Finances Top Problems

Discussions at the annual mid-year meeting of the board of directors of the California Association of Nurserymen at Fresno, Calif., March 31, indicated that serious curtailment of special projects is threatened unless additional income is forthcoming. Another withdrawal from the group's surplus funds, because of increased operating expenses and the cost of the association's publicity program, was indicated by the deficit budget adopted at the close of the session. This situation brought a plea by some individuals either to increase membership dues or find means of collecting equitable dues from all members. The discussion of finances overshadowed other important problems brought up during the meeting. Further consideration of the dues problem was deferred until the September convention at the Ahwanee hotel at Yosemite.

A close study of the financial report submitted by Treasurer Fred Fick, East Lawn Nursery, Sacramento, and Controller Syd Whitehorn, Sierra Nursery & Seed Co., Fresno, and discussion of chapter refunds, changes in bylaws, nursery license examinations, the publicity program and committee reports kept the directors in session from 9 a. m. to 5 p. m.

Attendance

Persons attending as chapter delegates were Lynne Seright, Seright's Centinela Avenue Nursery (Centinela chapter); Jack McDonnell, McDonnell Nursery, Oakland, and Jack Schneider, Orchard Nursery and Supply, La Fayette (Central); John Mason, Mason's Nursery, Pomona (Inland); O. L. Weeks, Weeks Wholesale Rose Growers, Ontario, and Ed. McNeill, Tuttle Bros. Nurseries, Altadena (Los Angeles); Art Hyde, Hyde's Nursery, Watsonville (Monterey Bay); Ernest Esch, Esch Nursery, San Jose, and John Edwards, John E. Edwards Nursery, Palo Alto (Peninsula); Harold Pricke's Nursery, Santa Rosa (Redwood); Ernest Otto, Otto & Sons, San Diego, and Frank Dawson, Dawson's Nursery & Landscape, Chula Vista (San Diego); Ben Thrasher, Thrasher's Nursery & Gift Shop, San

Fernando, and Jim Harris, Palmdale Nursery, Palmdale (San Fernando); William B. Moffet, Mount Arbor Nurseries, Gustine, and Andy Caglia, Andy's Nursery, Fresno (San Joaquin); Henry Ishida, Union Nursery, Gardena, (Southern California Bedding Plant); James A. Gibbs, Winsel-Gibbs Nursery and Seed Co., Los Angeles, and Alois Pastor, A. Pastor Wholesale Nursery, Inglewood (Sunset); Dwight D. Dewing, Capitol Nursery, Sacramento, and Richard Oki, Oki Nursery, Perkins, (Superior), and George Steelman, Steelman's Nursery, Camarillo (Tri-County).

James Wilson, Peters & Wilson Nursery, Millbrae, attended as immediate past president and director at large. The other director at large, Jack Evans, Evans & Reeves Nurseries, Los Angeles, was unable to be present. Chapters not represented were Bakersfield and Sequoia.

Delegates were entertained at a

cocktail party at the home of Andy Caglia, at Fresno, on the evening prior to the meeting, in an affair at which the San Joaquin chapter was host. Thursday evening, March 31, the host chapter invited the delegates to be guests at its dinner meeting at the Hacienda motel.

Nearly 100 members and guests attended the meeting. Short talks were given by David S. Stump, C. A. N. president, and Don Perry, vice-president. Arrangements for the meeting were handled by Ivan Stribling, Stribling's Nurseries, Merced, now serving as vice-president of the San Joaquin group.

Chapter Refunds

The directors' meeting opened with a membership report by Don Perry. He announced the total membership as of March 31 as 932, a net gain of 32 members since the 1954 convention at Coronado. After having been shelved in past meetings, an increase in refunds to chapters from \$3 to \$5, to take effect April 1, 1956, was finally approved. A proposal for a prorated dividend to chapters from surplus at the close of the year was withdrawn.

A majority of the proposed by-laws changes were approved. An exception was a proposal for the restriction of directors' terms to not



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more than two consecutive years nor more than two terms in any period of seven consecutive years. The majority of those present held the opinion that each chapter should have free choice in the selection of its representatives.

A resolution of appreciation was drafted and sent to the family of the late Liberty Hyde Bailey in recognition of his outstanding contributions to horticulture.

Two proposals for the alteration of scale of dues were defeated, despite warning by members of the Central chapter that an increase would be inevitable in the future should the association continue with deficit financing. The first proposal provided for a sliding scale for associate member dues from a minimum of \$30 to a maximum of \$50, the present rate, to be based on sales volume. The second proposal called for payment of dues on the basis of \$25 for each employee, with a minimum annual payment of \$50 and a maximum of \$500 from each firm to be paid quarterly. At the request of the Los Angeles chapter that a better method of dues collection control be studied, President Stump appointed a committee to review the matter and report at the September convention.

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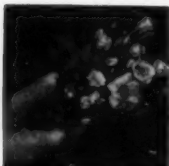
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chapter recommending moving the ornamental horticulture department from the Los Angeles campus to the new Goleta campus of the Santa Barbara branch of the University of California was tabled indefinitely. As far as directors were able to determine, no such request has been made by the university.

A proposal for setting up a board for licensing nurserymen, similar to that operating to license landscape contractors, was unfavorably received and tabled for the present. State officials expressed the opinion that such a move would restrict trade and could not be supported by law. It was further pointed out that the state nursery license is issued to regulate the movement of nursery stock and is not a permit to operate a business.

Wray Hiltabrand, head of the state bureau of nursery service, reported on his office activities and noted a steady increase in the number of licenses granted with a continued gain in the issuance of pinto tags which permit free movement of nursery stock without destination inspection in all but two California counties.

The publicity program for the coming year was submitted by Chairman Jack McDonnell, and the current publicity program of the association was discussed. In addition to the present program of supplying weekly releases to newspapers, radio and television stations, the committee proposed a special series of feature releases for the Los Angeles Times Home Magazine section, with photographs and art work, and a group of photographs and mats on special subjects to supplement weekly news releases. This new program would have added \$5,450 to the basic \$9,000 now budgeted, and a motion for acceptance was lost.

Pressley N. Jones, group insurance representative, reported on the favorable conditions of the various association-sponsored group plans, stating that continued progress in membership participation is evident. Committee reports were submitted by Dave Stump, legislative; Harold Prickett, safety, and David L. Cunningham, Descanso Distributors, Chino, scholarship. The research committee report was deferred until September.

The final item of business concerned the rehiring of Executive Secretary Elmer Merz, with a commendation for his efforts during the past year. His salary was continued at the present rate, with the addition of a cash bonus to be paid immediately.

Ed. McNeill



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STATE DIRECTORS MEET

The board of directors of the California Association of Nurserymen was entertained by the San Joaquin chapter on the occasion of its mid-year meeting, at Fresno, March 30 and 31.

On the evening of March 30 a cocktail party was held at the home of Andy Caglia, Fresno, in honor of the visiting directors and state officers, and a wonderful time was had by all.

The board of directors met at the Hacienda motel, Fresno, on the morning of March 31. The financial report was approved, and a motion was passed that a copy be sent to all chapter presidents. Each director would report to his chapter on questions pertaining to individual items.

The board approved action to increase refunds to chapters from \$3 to \$5 per member, effective on the 1956 dues year. One half of the first year's dues of each new member will continue to be returned to the chapter obtaining that new member.

Certain changes were approved in the association bylaws. These changes must be approved by the membership at the next convention before becoming effective. No major changes were made.

The board tabled a motion to make a change in the bylaws that would place a limitation on the terms a chapter director could serve. It was felt this was a chapter matter and could be incorporated in chapter bylaws if a chapter wished to put such limitation into effect.

Consideration was given a motion to place associate membership dues on a sliding scale, from \$30 minimum to a \$50 maximum, based on business volume, instead of the flat \$50 basis approved last year. The motion lost, and associate membership dues will remain at \$50 per year.

Several proposals were considered to change the basis for dues of regular members, none of which carried; however, a move to place this matter in the hands of a committee for further study was carried. (It was the general opinion of most members of the board that, if all members paid their full dues on a basis of the present plan, one tenth of one per cent of sales volume, income would be sufficient to carry out a greatly expanded publicity program as well as other activities.)

The various committee reports were submitted and approved. The membership committee reported that the membership now stands at 932.

An expenditure of \$9,000 was approved for the current fiscal year for a continuation of the publicity pro-

Our thanks to the many of you who entered into the fun of our March 15 ad and sent us transcriptions. It is always a pleasure to hear from our fellow nurserymen.

Bork's Nursery, Onarga, Ill., sent the first correct transcript. We are happy to book for them the new All-Americas for shipment next season.

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gram, and the Pacific Advertising Agency was hired to carry on with the program for another year.

It was requested that efforts be made to set up a licensing board, under state supervision, for issuance of licenses to operate a nursery. The matter was tabled.

The report of a committee appointed last year to study the above matter was approved. This report reiterated the opinion of a committee that studied this matter a year previously. This is not a matter that can be handled by legislation until a specific program can be submitted as to what is actually desired.

The request that the association office put out annually a brochure outlining the importance of membership in the association, along with a resume of activities during the year, was approved.

The annual dues classification book is to be continued and be mailed no later than February 1 of each year.

A budget for the 1955-56 fiscal operating year of \$38,860, which includes \$9,000 for the publicity program, was approved.

On the evening of March 31, the San Joaquin chapter played host to the directors and state officers at the Hacienda motel. State President Dave Stump summarized the highlights of the board meeting. Since this was the first attempt by a chapter to host a board of directors' meeting, there were many individual praises voiced by the attending directors. James Harris, of the Palmdale Nursery, eulogized the San Joaquin chapter's efforts as spokesman for the directors.

If the success of this meeting is any indication, it appears that this will become a standard practice by chapters.

Marion E. Gardner, Sec'y,
San Joaquin Chapter.

CENTINELA CHAPTER

The Centinela chapter of the California Association of Nurserymen met March 24 at Armand's restaurant, Inglewood. President Frank Kamada called the meeting to order following a ham dinner.

The agenda for the state directors' meeting at Fresno were discussed by State Director Lynne Seright.

Jack Hughes, representative of the California Spray-Chemical Co., was the guest speaker and presented two interesting pictures, "Orchids of Hawaii" and "European Gardens." It was Mrs. Hughes' birthday and the chapter presented her with a birthday cake.

William Megraw, Sec'y.

PENINSULA CHAPTER

The Peninsula chapter of the California Association of Nurserymen called on its own program chairman, Walter Borchers, W. B. Clarke & Co., San Jose, to be speaker at its April meeting. Mr. Borchers presented his mammoth display of flowering specimens and explained that California retail customers, used to generally mild winters, insist that spring blooms start at the close of fall, in late November. Beginning with specimens of early-flowering camellias, Mr. Borchers carried his audience through the winter months up to the date of his talk with a chronological sequence of flowering plants.

Mr. Borchers attempted to change any habit of thinking of spring-flowering plants as consisting only of deciduous types by showing a splendid array of selected evergreens. Among the more unusual subjects were correa, the Australian fuchsia; sarcococca, the azaras with yellow chocolate-scented flowers; the low-growing daphne, *D. collina neopolitana*; fragrant *Osmanthus delavayi*, *Aristotelia racemosa*, with its elegant winter flowers and foliage, and colorful *Berberis stenophylla irwini*.

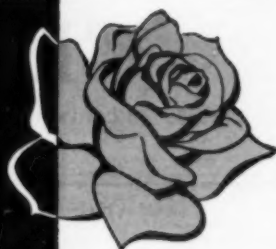
The late W. B. Clarke developed and introduced many new varieties of flowering quince and lilacs to add interest and color to the deciduous flowering shrub lists, a work still carried on by the company bearing his name. Mr. Borchers showed fine specimens of these favorite spring flowers.

Among unusual deciduous subjects displayed were *Magnolia stellata* Waterlily, *Davidia involucrata*, the dove tree, and Japanese tree peonies. Mr. Borchers suggested that retail nurserymen sell plants with brilliant foliage and flowers for spring color, pointing out the spectacular displays derived from Japanese maples, purple-leaved plums and *Pieris forrestii*.

The 55 members and guests heard Ernest Esch report on the state association directors' meeting held recently at Fresno. Mr. Esch stated that a project of the Peninsula chapter, an increased refund of membership dues to the several state chapters, was passed by the board. Another project backed by the Peninsula chapter and approved by the directors for continuance was the supplying of publicity releases on current garden subjects to 350 weekly and daily newspapers in the state.

New members introduced at the meeting, conducted by President William Schmidt, Palo Alto, were James DeBar, LaRoy's Nursery, Saratoga; Kay Nose, West Valley

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Reg. U. S. Pat. Off.

Nursery, Cupertino, and Peter Sugawara, Montebello Nursery, Los Altos. Visitors were Herbert Krell, W. B. Clarke & Co., San Jose; Fred Larson, Larson's Nursery, Palo Alto; Richard Spies, Wilson & George Meier Co., San Francisco, and Burt Edwards, of the horticultural department of the College of San Mateo.

WAYNE COCKBURN, Marysville Nursery, Everett, Wash., was guest speaker March 17 at a meeting of the Log Cabin Club, Everett. Mr. Cockburn spoke on landscape design.

CLASSIFIED ADS

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Instructions for the next issue must be received by Friday, April 29.

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4 to 6 ins.	KURUMES	100	1000
Bridesmaid	Hinodegiri		
Christmas Cheer	Peachbloss		
Coral Bells	Pink Pearl		
Double Mauve	Salmon Beauty		
Hexe	Salmon Queen		
Hino-Crimson	Snow	100	1000

4 to 6 ins.	PERICATS	100	1000
Mme. Pericat	Twenty Grand		
Sweetheart Supreme			

6 to 8 ins.	HARDY JAPANESE	100	1000
Amoena		\$10.00	\$90.00

Judd	red		
Kaempferi	Macrantha, pink		
Macrantha, double	Sherwoodii		

6 to 8 ins.	INDICAS	100	1000
Brilliant	President Clay		

Cocinea Major	Pride of Dorking		
Elegans	Pride of Mobile		

Fielders White	Daphne Salmon		
George Franc	Vitata Fortunei		
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CHINA SEA HINO-CRIMSON
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HEXE SALMON BEAUTY
HIAWATHA SNOW

4 to 6-in. liners.		Per 100	Per 1000
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Streamliner \$15.00
Superfection 15.00

Gem 14.00
All plants fresh dug, guaranteed to reach you in good condition.

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Senator Dunlap \$ 9.00 per 1000
Robinson 10.00 per 1000

Gem, everbearing 12.50 per 1000
Superfection, everbearing 12.50 per 1000

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Giant Gem, Streamliner, Superfection, everbearing, 1000, \$18.00. These are young, healthy, moss-packed plants, guaranteed to reach you in good growing condition.

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Double-flowering Fimbriata Carnation-type, 6 colors.		25.00	200.00

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Per 1000

Nos. 1	2	3	4	5	6	Bulblets
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Burma		\$17	13	9	6	4
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Corona			10	7	4	25
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Columbia		35	25	18	13	\$50 175
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Chamouny	\$22					
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C. D. Fortnam			16	10		
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Ciree				8	6	
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Conn. Yankee			15	11	8	
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Daisy Mae			14	7	5	20
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Dieppe		24	18	14	10	7 50
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Dolly Varden			24	18	13	9 50 175
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Eliz. the Queen	22	17	13	6	4	35
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Elmer's Rose		24	18	13	9	50
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Evangeline	22	17	13	9	6	4
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F. Nightingale		13	9	6	4	40
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Friendship					6	
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Gold		35	30	24	18	
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Heart's Desire			8	5		
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Harry Hopkins		20	15	11	8	
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June Bells		17				
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King David		38		20	15	60 200
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Leading Lady			10	7	4	25
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Mother Fischer		30	20	15	12	
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Nowata Rose		18	13	10	7	20 30
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Orange Gold		13	9			
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Oct. Sunshine		13	9			
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Patrol	24	20	16		9	7
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Pactolus		20	15		8	50
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Parthia		13			12	9
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Red Wing					12	9
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Red Charm		17		9	7	
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Sans Souci					10	7
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Sweet Sixteen		20	15	10	6	100
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Spic and Span					7	5
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Spotlight	24	18	14		7	4
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The Rajah			20	15	10	
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Valeria, No. 1, \$25.00; No. 5, \$7.50; No. 6, \$5.00; bblts. bu., \$50.00.						
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1 1/4 to 1 1/2-in.		Per 100	Per 1000
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Send for our list of over 200 varieties.

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These are field rooted divisions and will give utmost satisfaction for potting for spring resale or lining out.

CUSHION TYPES	Per 100
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Autumn Lights, new, bronze, early	4.00
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Clara Curtis, early pink Korean	4.00
Chas. Nye, large, early yellow	5.00
Chiquita, deep lemon pompon	5.00
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Huntsman, scarlet-orange	5.00
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Little Bronze, bronze pompon	4.00
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Poppy, white pompon	5.00
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Pinched, ROOTED CUTTINGS, branched

Each variety labeled, true to name.

Hardened outside, ready for field planting

5 each, 20 varieties, 100 plants... \$10.00

5 each, 40 varieties, 200 plants... 20.00

5 each, 100 varieties, 500 plants... 50.00

10 each, 20 varieties, 200 plants... 14.00

10 each, 40 varieties, 400 plants... 28.00

10 each, 100 varieties, 1000 plants... 70.00

25 each, 10 varieties, 250 plants... 15.00

25 each, 20 varieties, 500 plants... 30.00

25 each, 40 varieties, 1000 plants... 60.00

25 each, 80 varieties, 2000 plants... 120.00

25 each, 100 varieties, 2500 plants... 150.00

FIELD PLANTING TIME, May, June in most

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OUTSTANDING KINDS

Grown more than a year in 2½-in. pots and now ready to move up.

\$17.50 for 50, \$22.50 for 100,

\$30.00 for 1000.

Packed 50 in a case. Order by the case of fifty and not less than 10 plants of any one kind. Add \$2.25 per case and we will prepay the shipping via express.

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Alba Plena, Morning Glow, Purity, White Daikagura Youtz, White Peony Purity.

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MARBLE KINDS

Chandleri Elegans, Daikagura Variegated, H. B. Streeter, Rosa Superba Variegated.

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Araishii, Mathotiana Julia Drayton, Rosa Plena.

Cash with order, please.

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This is one of the hardiest Cotoneasters which went through 20 degrees below zero without any harm. It has large berries like cranberries which color up in the middle of August and remain on until very late fall. It grows rather flat and makes an ideal plant to combine with foundation plantings, especially with ranch-type houses. We can offer the following for 1955:

	Per 100	Per 1000
Strong, 1-year seedlings, branched, 4 to 8 ins.	\$25.00	\$225.00
Transplants, 2-year, 8 to 12 ins.	50.00	
Cotoneaster horizontalis, strong 1-year seedlings	10.00	90.00
Cotoneaster divaricata, 1-year seedlings, 6 to 8 ins.	10.00	90.00

C. HOOGENDOORN

Turner Rd., Newport, R. I.

DELPHINIUMS

FINEST DELPHINIUM SEEDLINGS

May sowing, 24-in. rows.
Belladonna, light blue.
Bellamoss, dark blue.
\$6.00 per 100, \$57.00 per 1000.
Write for our list of Phlox.
R. M. KELLOGG COMPANY
The best since 1869.
Three Rivers, Mich.

PACIFIC HYBRID DELPHINIUMS

Galahad, white; Blue Bird, dark blue; Summer Skies, light blue; King Arthur, purple, and mixed colors, \$10.00 per 100, \$95.00 per 1000. Pink Astolat, \$12.50 per 100. All from 2-in. pots. Excellent coldhouse stock. Ship now or later.

RUSSELL BREECE, R. 3, Delaware, O.

EVERGREENS

EVERGREEN LINERS AND CUTTINGS

POT-GROWN AND TRANSPLANTS

	Each—	Per 100	Per 1000
Arborvitae, Globe Woodward, 4 to 5 ins.	\$0.20	\$0.18	
Arborvitae, pyramidal, 1-yr., 5 to 6 ins.	.22	.20	
Juniperus chinensis Pfitzeriana, 1-yr. pots, 6 to 7 ins.	.24	.22	
Juniperus glauca Hetzi, 1-yr., 5 to 6 ins.	.20	.18	
Taxus cuspidata, 2-yr., 6 to 9 ins.	.24	.22	
Euonymus alatus compactus, 1-yr., 3 to 4 ins.	.18	.16	
Korean Boxwood, 1-yr., 3 ins.	.20	.18	

HEAVY ROOTED CUTTINGS

From flats, rooted outside in lath house. Delivery now.

Boxwood, Korean, hardy	\$0.09	\$0.08
Boxwood, sempervirens, 2 to 3 ins.	.07	.06
Euonymus alatus compactus, 3 to 4 ins., 2-yr., branched	.09	.08
Euonymus erectus, 3 to 4 ins.	.07	.06
Euonymus patens, 3 to 4 ins.	.07	.06
Juniperus chinensis Pfitzeriana, 5 ins.	.13	.12
Juniperus glauca Hetzi, 4 to 5 ins.	.10	.09

DELIVERY ON FOLLOWING JUNE 30, 1955

Arborvitae, pyramidal, 5 ins. .11 .10

Arborvitae, globe, 2 to 4 ins. .10 .09

Arborvitae, American, dark green; 5 ins. .10 .09

Taxus Hicksi, 5 to 6 ins. .11 .10

Taxus cuspidata, 4 to 5 ins. .10 .09

Taxus media, spreading, 3 to 4 ins. .11 .10

Taxus Andersoni, 4 to 5 ins. .11 .10

Terms: 2 per cent discount and free packing for cash with order. Our stock guaranteed 100 per cent satisfactory or return within 5 days for full refund, plus full shipping charges paid.

250 plants at 1000 rate.

MIAMI NURSERY CO.

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LINING-OUT STOCK

	Per 100	Per 1000
Austrian Pine, 2-0, 3 to 5 ins.	\$3.00	\$18.00
Mugo Pine, 2-0, 2 to 4 ins.	3.50	20.00
2-1, 4 to 6 ins.	5.00	35.00
Red Pine, 2-0, 2 to 4 ins.	2.50	15.00
Black Hills Spruce, 2-0, 2 to 4 ins.	3.50	20.00
Black Spruce, 2-0, 4 to 8 ins.	5.00	25.00
Colorado Blue Spruce, 2-0, 2 to 4 ins.	3.50	20.00
2-1, 3 to 4 ins.	5.00	35.00
Norway Spruce, 2-0, 2 to 6 ins.	3.50	20.00
2-1, 3 to 6 ins.	5.00	35.00
White Spruce, 2-1, 3 to 6 ins.	5.00	35.00
American Arborvitae, 2-1, 3 to 4 ins.	5.00	35.00

Terms: 2 per cent, cash with order.

Potted Juniper, Arborvitae, Spruce, etc., available at nursery. Write for complete list.

JOHN G. ZELENKA

EVERGREEN NURSERY

Rt. 2, Box 291

Grand Haven, Mich.

EVERGREENS, ROOTED CUTTINGS

	Each, per 100	Per 1000
3000 Arborvitae elegantissima, 4 to 6 ins.	\$0.09	\$0.08
3000 Arborvitae, Globe Woodward, 4 to 6 ins.	.09	.08
5000 Arborvitae, Pyramidal, 4 to 6 ins.	.08	.07
6 to 10 ins.	.10	.09
4000 Juniper, Andorra, 4 to 6 ins.	.09	.08
5 to 10 ins.	.10	.09
3000 Juniper, Chinese Pfitzer, 4 to 6 ins.	.10	.09
5 to 8 ins.	.12	.11
1000 Juniperus golden plumosa, 4 to 6 ins.	.09	.08
5 to 8 ins.	.10	.09
3000 Juniper, Irish, 4 to 6 ins.	.09	.08
5 to 10 ins.	.10	.09
5000 Juniperus excelsa stricta, 4 to 6 ins.	.09	.08
5 to 8 ins.	.10	.09
5000 Juniperus Hetzi, 4 to 6 ins.	.09	.08
5 to 8 ins.	.10	.09
3000 Taxus capitata, 4 to 6 ins.	.10	.09
6 to 10 ins.	.12	.11
5000 Taxus cuspidata, 4 to 6 ins.	.09	.08
6 to 10 ins.	.10	.09
3000 Taxus Hicksi, 4 to 6 ins.	.09	.08
6 to 10 ins.	.10	.09

We also have the above in 1 to 2-year field-grown. Free packing for cash with order.

Write or come to see us (one mile west of Rootstown) on Route 18.

ROOTSTOWN GARDEN

R. D. 3 Ravenna, O.

GOLDEN GOOSE LINERS

For Immediate Delivery or for Reservation.

All quotations are for beautiful lining-out stock from 2½-in. pots, grown in open beds, under field conditions and ready for field planting.

HOLLY

	Per 100
ILEX CORNUTA FEMINA (Chinese Holly), 4 to 6 ins.	\$16.00
6 to 8 ins.	18.00
ILEX CORNUTA BURFORDI, 4 to 6 ins.	10.00
6 to 8 ins.	12.00
10 to 12 ins.	14.00
ILEX CRENATA ROTUNDIFOLIA (Japanese Holly), 6 to 8 ins.	10.00
ILEX CRENATA BULLATA CONVEXA, 6 to 8 ins.	14.00
ILEX OPACA HOWARDI (Improved American Holly), 6 to 8 ins.	17.50
ILEX CASSINE ANGUSTIFOLIA, 6 to 8 ins.	16.00

Our hollies are grown from either cuttings or grafts, from well-berried specimens, insuring berries for you.

OTHER BROAD-LEAVED EVERGREENS.

EUONYMUS PATENS (Siebold), 8 to 10 ins.	10.00
EUONYMUS RADICANS, 8 to 10 ins.	10.00
LIGUSTRUM LUCIDUM COMPACTUM (Griffing Waxleaf), 8 to 10 ins.	10.00
PHOTINIA SERRULATA, 6 to 8 ins.	15.00

TERMS: Packing without cost, 25 per cent with order, balance C.O.D. Minimum 50 of a kind, please.

EVERGREEN NURSERIES,

Poplar Pike,

Germantown, Tenn.

ROOTED CUTTINGS

	SIZE	Per 100	1000
Arborvitae, Green		\$0.08	\$0.07
Niagra			
Arborvitae			
pyramidalis	6 to 10 ins.	.09	.08
Juniper, Andorra	4 to 8 ins.	.12	.11
Juniper, Pfitzer	4 to 8 ins.	.12	.11
Juniperus Hetzi	4 to 8 ins.	.12	.11
Taxus Browni	6 to 10 ins.	.10	.09
Taxus capitata (leaders)	6 to 10 ins.	.16	.14
Taxus cuspidata	6 to 10 ins.	.09	.08
Taxus Hicksi	6 to 10 ins.	.09	.08
PLANT BANDS			
Pfitzer Juniper		.22	.20
Arborvitae pyramidalis		.18	.16
1-YEAR BEDS			
Taxus cuspidata	6 to 8 ins.	.15	.14
Taxus Hicksi	6 to 8 ins.	.15	.14
Taxus cuspidata	6 to 10 ins.	.24	.22
Pyramidal			
Arborvitae	6 to 10 ins.	.18	.16
2-YEAR BEDS			
Arborvitae, Green			
Niagra	8 to 12 ins.	.27	.25
Taxus cuspidata	6 to 8 ins.	.22	.20
6-YEAR			
Taxus Hicksi (bare-root), 12 to 15 ins.		\$1.00	each
50 at 100 rate; 200 at 1000 rate. Packing at cost. Quantities of 5000 or more, write for special quotations.			

DRAKE'S NURSERIES

G-4342 Branch Road

Flint 6, Mich.

Koster Blue Spruce, grafted on Norway stocks, in quart cans, \$1.25 each. Shipment in May. Clinger's Nursery, Rogers, Ark.

EVERGREENS—Continued

EVERGREEN LINERS			
	Each	Per 100	Per 1000
PFITZER JUNIPER			
2 1/2-in. pots, 1-year	\$.23	\$20.20	
Field-grown, 2-year	.45	.40	
Rooted cuttings	.13	.12	
BLUE PFITZER JUNIPER			
2 1/2-in. pots, 1-year	.25	.20	
Rooted cuttings	.14	.13	
ARMSTRONG PFITZER JUNIPER			
2-in. pots, 1-year	.23	18 1/2	
Field-grown, 2-year	.60	.55	
Rooted cuttings	.13	.12	
WOODWARD GLOBE ARBORVITAE			
2 1/2-in. pots, 1-year	.20	16 1/2	
Field-grown, 2-year	.35	.30	
Rooted cuttings	.10	.09	
EXCELSA ARBORVITAE			
2-in. pots, 2-year	.20	16 1/2	
Field-grown, 2-year	.35	.30	
Field-grown, 3-year	.55	.50	
BIOTA BONITA ARBORVITAE			
2-in. pots, 1-year	.20	.15	
TAXUS CUSPIDATA			
2 1/2-in. pots, 1-year	.20	.15	
Rooted cuttings	.10	.09	
TAXUS ANDERSONI			
2 1/2-in. pots, 1-year	.20	.15	
TAXUS HICKSI			
2 1/2-in. pots, 1-year	.20	.15	
Rooted cuttings	.10	.09	

ROOTED CUTTINGS			
	Per 100	Per 1000	
Arborvitae, dark green Ameri-			
can, 6 to 10 ins.	\$9.00	\$80.00	
Arborvitae, Globe, 4 to 8 ins.	9.00	80.00	
Arborvitae, Pyramidal,			
6 to 10 ins.	9.00	80.00	
Juniper, Pfitzer, 6 to 10 ins.	10.00	95.00	
Juniper, Hetzi glauca,			
6 to 10 ins.	9.00	80.00	
Juniper Sabina, 6 to 10 ins.	9.00	80.00	
Juniper, Von Ehron, 6 to 10 ins.	9.00	80.00	
Juniper, Andorra, 6 to 10 ins.	9.00	80.00	
Taxus cuspidata, 6 to 10 ins.	9.00	80.00	
Taxus Hunnebelliana,			
6 to 10 ins.	9.00	80.00	
FIELD-GROWN EVERGREEN LINERS			
2-yr. in beds	Per 100		
Taxus cuspidata, 8 to 12 ins.	\$25.00		

EVERGREENS, ROOTED CUTTINGS			
	100	1000	
Taxus Browni, 5 to 6 ins.	\$9.00	\$80.00	
Taxus cuspidata, 6 to 8 ins.	8.00	70.00	
Taxus capitata, 6 to 8 ins.	10.00	90.00	
Juniper communis depressa,			
4 to 5 ins.	8.00	70.00	
Junip. Hetzi glauca, 6 to 8 ins.	9.00	80.00	
Globe Arborvitae, 4 to 5 ins.	8.00	70.00	
Retinispora, 4 to 5 ins.	8.00	70.00	

1-YEAR TRANSPLANTS			
	100	1000	
Taxus cuspidata	16.00	150.00	
Retinispora	16.00	150.00	

NEIDEL'S NURSERY AND GREENHOUSE

Mtd. Rt. 4, Haddon Heights
Oil City, Pa.

EVERGREENS			
	Each		
Pfitzer Juniper, TT, field,			
8 to 11-in. spread	\$0.40		
plant bands, 6 to 8-in.	.14 1/2		
plant bands, 8 to 10-in.	.20		
Andorra Jun., bands, 6 to 10 in.	.12 1/2		
extra heavy	.16 1/2		
Blue Hetz Jun., bands, 6 to 8 in.	.12 1/2		
Savin Jun., bands, 8 to 10 in.	.12 1/2		
extra heavy	.16 1/2		
Von Ehron Jun., bands, 11 to 13 in.	.12 1/2		
extra heavy	.16 1/2		
bare-root, 8 to 10 in. (topped)	.06		
Spreading Jap. Yew, bands, 6 to 8 in.	.20		
Upright Jap. Yew, bands, 6 to 8 in.	.20		

All prices 300 or more total order, 50¢ of a variety. Less than 300, add 2¢ per plant.

See classified ad under Lining-out Stock.

McININCH GREENHOUSES,

St. Joseph, Mo.

QUALITY LINERS

	Per 100		
Canadian Hemlock, 4 to 8 ins., tr.	\$17.50		
Mugho Pine, 10 to 8 ins., tr.	20.00		
Colo. Blue Spruce, 5 to 10 ins., tr.	20.00		
Enkianthus camp., 8 to 12 ins., tr.	25.00		
Taxus cuspidata, 6 to 8 ins., tr.	25.00		
Viburnum Carlesii, 8 to 12 ins.	27.50		
Ilex convexa (bullata), 8 to 10 ins.	30.00		
Cornus Kousa, 15 to 24 in.	35.00		
Rhodo. Hybrids, 4 to 10 in.	45.00		
Pink Dogwood, 10 to 15 in., grafts	75.00		
Red Japanese Maple, 1-yr. grafts	85.00		

Send for new spring list.

POSSY HOLLOW NURSERIES

6327 Magnolia St. Philadelphia 44, Pa.

PIERIS JAPONICA

(Andromeda)

	Per 100	Per 1000	
1 to 2 ins., T.	\$8.00	\$75.00	

PLANE VIEW NURSERY, Newport, R. I.

LINING-OUT STOCK

	Each	Each	
	Per 100	Per 1000	
Hex rotundifolia, TT, bushy,			
6 to 9 ins.	\$0.40	\$0.35	
Hex rotundifolia, TT, bushy,			
9 to 12 ins.	.50	.45	
Andromeda Catesbaei (Leucoth-			
oe), TT, bushy, 8 to 10 ins.	.40	.35	
Andromeda Catesbaei (Leucoth-			
oe), TT, bushy, 10 to 12 ins.	.50	.45	

Five or ten dollar sample sent upon request.

GERARD K. KLYN, INC.

Mentor, O.

CANADA HEMLOCK

Collected seedlings and transplants.

	Per 100	Per 1000	
6 to 9-in. seedlings	\$4.00	\$20.00	
9 to 12-in. seedlings	6.00	45.00	
12 to 18-in. seedlings	8.00	65.00	
4 to 8-in. transplants, 2-2	15.00	120.00	

These are first-quality, bushy Hemlocks,

carefully dug and packed in sphagnum moss

in ventilated boxes.

Send for complete list of lining-out stock.

ISAAC LANGLEY WILLIAMS

Box AN Exeter, N. H.

JUNIPER GRAFTS.

Canari, glauca, Burki, Keteleeri, Dundee,

chinesis, mascula, All on Va. understock.

Priced, 40¢ each; no discount. Terms: One-

fourth cash with order and balance before

shipping date, plus packing at cost. All cash

with order earns free packing. Order at

once. Two-thirds sold out now. When better

grafts are made, Crume will make them.

T. C. CRUME NURSERY AND

LANDSCAPING CO.

Highway 42, Florence, Ky.

EUONYMUS PATENS

Full plants, field-grown under irrigation.

	Each	Each	
	Per 100	Per 1000	
8 to 10 ins., 2-yr., XX	\$0.35	\$0.30	
10 to 15 ins., 2-yr., XX	.55	.50	
12 to 18 ins., 3-yr., XX	1.10	1.00	
15 to 24 ins., 3-yr., XX	1.40	1.35	
24 to 30 ins., 3-yr., XX	1.65	1.60	
30 to 36 ins., 4-yr., XX	1.90	1.85	

HAGGERTY'S LANDSCAPE NURSERY

Lincoln 6, Neb.

HEAVY POTTED EVERGREEN LINERS

Excellent stock under lath.

	Per 100		
Buxus sempervirens			
2 1/2-in. pots, 3-yr.	\$22.50		
Buxus koreana, 2-in. pots, 3-yr.	22.50		
Taxus cuspidata, 2-in. pots, 2-yr.	20.00		
Taxus cuspidata, 2 1/2-in. pots, 2-yr.	22.50		
Taxus Hicksi, 2 1/2-in. pots, 2-yr.	22.50		
3-yr., T. 10 to 12 ins.	37.50		

Spring delivery. Cash; packing free.

FLORAL GARDENS, EATON, O.

THUJA PYRAMIDALIS

Cutting-grown from select specimens, twice

transplanted. Good root system, full grade.

Moss packed, lightweight crating free. Cash

with order.

8 to 12 ins. \$12.50 per crate of 50 plants

12 to 15 ins. 17.50 per crate of 50 plants

15 to 18 ins. 25.00 per crate of 50 plants

Accumulated order of 500 or more plants

10 per cent discount.

RICHARD P. RESSEL, MULINO, ORE.

WHITE PINE, 3 TO 4 FT.

RED PINE, 3 TO 4 FT.

AUSTRIAN PINE, 2 TO 3 FT.

WHITE SPRUCE, 2 TO 3 FT.

\$1.50 each, buyer digs.

Mugho Pine, 9 to 12 ins., B.R. 100, \$75.00.

All stock 3 times transplanted. Last time,

2 years ago. Excellent root system. About

6000 for spring.

ELLERY NURSERIES, KEENE, N. H.

IRISH YEW (Taxus hibernica)

Green or golden, your choice. Cutting-

grown, twice transplanted, field beds, good

roots, full measure. Lightweight, moss

packed, crating free. Cash with order.

8 to 12 ins. \$17.50 per crate of 50 plants

12 to 15 ins. 20.00 per crate of 50 plants

15 to 18 ins. 25.00 per crate of 50 plants

Accumulated order of 500 or more plants

10 per cent discount.

RICHARD P. RESSEL, MULINO, ORE.

EUONYMUS COLORATUS, 2-yr., field-

grown, from pots, under irrigation and

clipped; 12 to 15-in. spread, \$38.00 per 100;

12 to 15-in. spread, \$35.00 per 100.

EUONYMUS MINIMUS, staked upright.

	Each		
10 to 12 ins., B.&B.	\$1.65		
12 to 15 ins., B.&B.	1.85		
15 to 18 ins., B.&B.	2.25		

WHITHAM NURSERIES

Agency, Ia.

B & B EVERGREEN TREES

Certified stock: Norway Spruce, White

Spruce, Red Pine, Scotch Pine. These are

transplants which have been sprayed and

trimmed. 50¢ per foot. Liberal quantity dis-

counts. Pick up only, no shipping.

HARVARD TREE FARM

Pleasant St. Athol, Mass.

COLO. AND BLACK HILLS SPRUCE, 2 1/2

to 4-ft.; Mugho Pine, 12 to 24 in., and

other finished and lining-out stock. List free.

PEQUOT NURSERIES, Brainerd, Minn.

200 NORWAY SPRUCE
Beautiful 3 to 4 ft. trees,
4 times transplanted.
Heavy growth, fine root system,
\$200.00 per 100.
Dig them yourself.

HEISE'S NURSERY
4040 Washtenaw Rd., Ann Arbor, Mich.
Phone: Ann Arbor NO-25613

CHOICE EVERGREENS
Planting material, suitable for homes,
churches, schools, factories, etc. Taxus,
Junipers, dwarf Hemlocks, Mugho Pine,
dwarf Alberta Spruce, Stone Pine, etc. Up
to 6 ft. At a price you can afford to pay.

KEEL NURSERY
Bullis Rd., Marilla, N. Y.
17 miles east of Buffalo, N. Y.

OUTDOOR-GROWN LINERS
Ready for the field.

	Per 100	Per 1000	
Juniper, Pfitzer, 10 to 12 ins.	\$35.00	\$325.00	
Juniper, Pfitzer, 12 to 15 ins.	45.00	425.00	
Juniper, Pfitzer, 15 to 18 ins.	55.00	500.00	

300 or more above sizes at 100¢ rate.

THE SARCOXIE NURSERIES

Wild Bros. Nursery Co.

Sarcoxie, Mo.

EUONYMUS (WINTER CREEPER)

	Each		
Euonymus erectus, 8 to 10 ins., T.	\$0.20		
Euonymus erectus, 12 to 15 ins., T.	.35		
Euonymus Newport, 8 to 10 ins., T.	.35		
Euonymus vegetus, 8 to 10 ins., T.	.35		

All top quality. Sample upon request.

LINWORTH NURSERY

5785 Godown Rd., Columbus 14, O.

THUJA (Retinispora) OBTUSA HINOKI

Cutting-grown from select specimens.

Lightweight crating free. Cash with order.

4 to 6 ins., from 2 1/2-in. pots, \$6.25 per crate

of 25 plants. Order by crate only. 500 or

more plants 10 per cent discount.

RICHARD P. RESSEL, MULINO, ORE.

FRUIT AND NUT TREES

EAST MALLING VII

CALOUSED GRAFTS

	Per 100		
\$18.00 PER 100,			
\$170.00 PER 1000.			

1/2 WITH ORDER.

BALANCE C.O.D.

SAMMAMISH VALLEY NURSERY

Rt. 2, Box 2370 Redmond, Wash.

CHINESE CHESTNUTS

FROM U.S.A. STOCK

</

THORNDALE SUB-ZERO ENGLISH IVIES
(Special Hedera Helix strain.) Stand 55
degrees below zero. For detailed description
and prices see our display ad in this issue.
THORNDALE FARMS, WOODSTOCK, ILL.

HARDY PLANTS

HARDY PERENNIALS	Per 100
Pampas Grass, Plume Grass, field clumps.....	\$12.00
White Creeping Phlox, field clumps.....	10.00
Daisy Shasta Supreme, field clumps.....	8.00
Artemisia Silver King, field clumps.....	12.00
Aster Beechwood Challenger, runners.....	5.00
Aster Countess of Dudley, runners.....	5.00
Aster Perry's Favorite, runners.....	5.00
Aster Lady Maddocks, runners.....	5.00
Aster Victor, runners.....	5.00
Aster Lavendula runners.....	5.00
Aster Mt. Everest, runners.....	5.00

Order not less than 25 of a variety.
Minimum order \$4.00.

ELKHART NURSERY CO.

1650 Toledo Rd. Elkhart 2, Ind.

FIELD-GROWN HARDY PERENNIALS

Aquilegia Dobbie's Hyb., mixed; 2-yr. \$ 5.00	100
Aquilegia Mrs. Scott Elliott's.....	5.00
mixed; 2-yr.....	5.00
Canterbury Bells, mixed, 1-yr.....	4.00
Delphinium Belladonna, 2-yr.....	5.00
Delphinium Belladonna, 1-yr.....	4.00
Dianthus barbatus plunarius, 1-yr.....	4.00
Pyrethrum Robinson's Hybrids.....	6.00
Pyrethrum Robinson's Hybrids.....	6.00
Pyrethrum Robinson's Hybrids.....	6.00
Peony festiva maxima, white;.....	5.00
3 to 5-yr.....	25.00

NOVOTNY GARDENS, OSAGE, IA.

GERBERAS, PRIZE-WINNING STOCK

Small (Duplex).....	\$11.00	Per 100
Large (Duplex).....	15.00	135.00
Jumbo (Duplex).....	25.00	225.00
DOUBLES, EXTRA CHOICE, 5 SEPA- RATE COLORS; sturdy divisions, \$37.50 per 100, \$350.00 per 1000.		
250 takes 1000 price. F.O.B. San Fernando.		
Other fine perennials. Write for catalog.		

FEADER WHOLESALE NURSERIES,

P. O. Box 428, San Fernando, Calif.

HARDY PLANTS

Shasta Daisies, Mark Riegel.....	\$4.00	Per doz.
Majestic, Riegel's Improved.....	20.00	
Mayfield Giant.....	3.00	10.00
Extra heavy, field-grown divisions. Send for complete wholesale listing of perennials, 34 leading varieties of Hemerocallis, Liriope, Hibiscus Mallova and liners.		

RIGEL PLANT CO., EXPERIMENT, GA.

MAMMOTH SAGE

Famous Holt strain. Dried leaves used for
seasoning sausage, dressing, etc. Beautiful
blue-flowering hardy plants, grow for years
without replanting.

1-year, field-grown.....	Per 25	Per 100
2-year, field-grown.....	\$2.00	\$6.00
	2.75	9.00

BOHLENDER NURSERIES CO.,

Tipp City, O.

HELLEBORUS NIGER

(Christmas Rose)	
Our own grown.....	
3-yr. transplants.....	\$50.00 per 100,
	\$450.00 per 1000.

C. HOOGENDOORN

Turner Rd. Newport, R. I.

GIANT DOUBLE SHASTA DAISIES.

Field-grown transplants, very nice, \$10.00
per 100.
Field-grown Dianthus barbatus, Shasta
Daisy Alaska, Carnation Grenadin, in red,
yellow or mixed colors, \$5.00 per 100.

NORTH POLE NURSERY

Cornucopia, Wis.

GYPHOPHILA BRISTOL FAIRY

Strong 2 1/2-in. pot plants, grafted.	
Per doz.....	Per 100
\$3.50.....	\$22.00
25 at 100 rate; 250 at 1000 rate.	\$200.00

BLUE ACRE GARDENS

R.R. 3, Box 292-A Piqua, O.

CALCEOLARIA GOLDEN NUGGET

New perennial. Grows compact. Covered
with mottled bright yellow blooms. Takes
full sun. Ideal pot plant. Well-rooted cut-
tings, \$20.00 per 100, \$185.00 per 1000.

FEADER WHOLESALE NURSERIES

P. O. Box 428, San Fernando, Calif.

HARDY PLANTS

For large selection of freshly dug stock,
see our classified ad in the April 1 issue.

KAZOO-GARDENS NURSERY

Dependable growers of Hardy Plants

Richard Van Engen

206 Richard Ave. Kalamazoo 33, Mich.

VIOLETS

Rosina, pots.....	10	100
Double Russian.....	\$2.00	\$15.00
Spring wholesale catalog on request.	2.25	18.00

THE JOSEPH F. MARTIN CO., INC.

Painesville, O.

SEMPERVIVUM (Hen-and-Chickens), \$5.00

prepaid. Express, \$30.00 per 1000.

THE PEQUOT NURSERIES, Brainerd, Minn.

ASTER FRIKARTI

Heavy 1-year clumps,
\$25.00 per 100, \$235.00 per 1000.
Packing at cost.
DESCANSO DISTRIBUTORS, INC.
Wholesale Growers Chino, Calif.

HARDY FERNS

Ostrich, Clayton, Lady and Maidenhair,
\$7.50 per 100. XX size, \$10.00 per 100.
STRAND NURSERY CO.
Taylors Falls, Minn.

America's Best Source

for Hardy Plants is
THE WATSON GARDENS
Mantol, Ohio

Write for Trade List.

HARDY PLANTS

For large selection of hardy plants, see
our classified ad in the March 15 issue.

BAYFIELD NURSERY CO.

Rt. 1 Bayfield, Wis.

PERENNIALS.

New and standard kinds.
New wholesale list now ready.
CARROLL GARDENS
Westminster, Md.

PANSIES, PERENNIALS AND ROCK PLANTS IN WIDE

variety. Send for catalog.
PITZONKA'S PANSY FARM & NURSERY
Bristol, Pa.

SALVIA AMERICA

2 1/4-in., \$5.00 per 100, \$30.00 per 1000. In
lots of 5000 and 10,000, write for price.
RAY LANGSFORD, Lee's Summit, Mo.

WELLER'S BETTER PERENNIALS

WELLER NURSERIES CO., Holland, Mich.

Write for trade list.

HOLLY

QUALITY STOCK

3000 Ilex crenata convexa, 1-yr. Each	
4 to 6 ins.	\$0.07
2000 Ilex crenata, convexa seedlings.....	
2-yr., 3-in. pots, many promising variations.....	18
500 Andorra Juniper, 1-yr., 2 1/2-in. pots.....	17
Minimum order 100. Cash with order, please.	

BUCHANAN'S NURSERY

5108 Western Blvd. Raleigh, N. C.

ILEX CRENATA ROTUNDIFOLIA

Transplanted, outdoor bed-grown, 1-yr.
4 to 6 ins. \$7.00 per 100
6 to 8 ins. 9.00 per 100
5 per cent discount on orders totaling 1000
or more plants.

B. F. PONDER

308 6th Ave. Lanett, Ala.

HOLLY

Order now for spring delivery.
Cutting-grown female plants out of 3-in. pots.
English Holly, green \$40.00 per 100
Rooted cuttings, green..... 17.50 per 100
100 minimum quantity. Cash with order.

DESCANSO DISTRIBUTORS, INC.

Wholesale Growers Chino, Calif.

ILEX ROTUNDIFOLIA

Rooted cuttings, \$4.00 per 100, \$35.00 per 1000.
J. G. TSCHINKEL
115 N. Plymouth Huntville, Ala.

HYDRANGEAS

CLIMBING HYDRANGEA PETIOLARIS

Heavy plants from 3-in. pots.
25 for \$8.00; 100 for \$25.00.
Cash with order, no charge for packing.

BURGESS SEED & PLANT CO.

Wholesale Dept.
Galesburg, Mich.

IVIES

VARIEGATED IVY

Runners, 4 ft. long, \$5.00 per 100.
ENGLISH IVY
Runners, \$10.00 per 1000.
ALGERIAN IVY
Runners, \$5.00 per 100.

HAHN'S IVY

Runners, \$3.00 per 100.

GLACIER IVY

Runners, \$10.00 per 100.

GOLD DUST IVY

Runners, \$10.00 per 100.

GRAPE IVY

Runners, \$5.00 per 100.

BRADBURY FLORIST

P. O. Box 5923, Metro Sta., Los Angeles, Calif.

BALTIC IVY

Strong, clean, well-rooted stock.
Per 100 Per 1000
Rooted cuttings \$ 6.00 \$55.00
2-in. pots 10.00 95.00
Can ship now or later. 25 per cent down
to reserve.

STRATFORD GARDENS

Russell Breece Delaware, O.

THORNDALE SUB-ZERO ENGLISH IVIES

(Special Hedera Helix strain.) Stand 55
degrees below zero. For detailed description
and prices see our display ad in this issue.

THORNDALE FARMS, WOODSTOCK, ILL.

HEDERA HELIX AND BALTICA

ORDERS ACCEPTED FOR FALL SHIPMENT.

BABCOCK GARDENS

Route 3 Jamestown, N. Y.

ROOTED IVY CUTTINGS FROM SOIL

Green Ripple.....	\$10.00 per 100
Gold Dust.....	7.00 per 100
Glacier.....	7.00 per 100
Hahn's.....	4.00 per 100
Algerian.....	5.00 per 100
Large leaf variegated.....	4.00 per 100

BRADBURY FLORIST

P. O. Box 5923, Metro Sta., Los Angeles, Calif.

IVIES

LARGE-LEAVED ENGLISH.

\$10.00 per 100.

JACOB SCHULZ

531 Cherokee Rd. Louisville, Ky.

LINING-OUT STOCK

BEDDED STOCK

1-yr. in the open.

	Per 100	Per 1000
Ilex convexa.....	\$20.00	\$180.00
Ilex rotundifolia.....	20.00	180.00
Sarcococca hookeriana.....	25.00	
Taxus andersonii.....	20.00	175.00
Taxus brevifolia.....	20.00	
Taxus Browni.....	17.50	150.00
Taxus canadensis stricta.....	17.50	
Taxus capitata, cutting grade.....	25.00	
Taxus cuspidata.....	17.50	150.00
Taxus Hatfieldi.....	17.50	150.00
Taxus Hicksi.....	17.50	150.00
Taxus intermedia.....	17.50	150.00

SEEDLINGS AND TRANSPLANTS

Abies Douglasi, 2-yr. S.....	4.00	35.00
Abies Nordmanniana, 1-yr. S.....	10.00	90.00
Acer palmatum, 1-yr. S.....	6.00	50.00
Acer palmatum, 2-yr. S.....	7.50	65.00
Acer palmatum atropurpureum, 1-yr. S.....	22.50	200.00
Ampelepis Veitchi, 2-yr. T.....	15.00	125.00

Chamaecyparis obtusa,

2-yr. S..... 3.00 25.00

Cornus florida, 1-yr. S..... 6.00 50.00

Cornus florida, 2-yr. S..... 7.50 65.00

Cornus kousa, 2-yr. S..... 20.00 150.00

Cupressus Lawsoniana, 2-yr. S..... 5.00 40.00

Euonymus alatus, 1-yr. S..... 3.50 30.00

Euonymus alatus compactus,
1-yr. S..... 5.00 40.00

Ilex crenata, 2-yr. S..... 10.00 90.00

Picea canadensis, 2-yr. S..... 3.50 30.00

Picea Engelmanni, 3-yr. S..... 5.00 40.00

Picea excelsa, 2-yr. S..... 2.50 20.00

Picea pungens, 2-yr. S..... 3.50 30.00

Pinus austriaca, 2-yr. S..... 7.00 60.00

Pinus densiflora, 3-yr. S..... 7.00 60.00

Pinus Mugo, Tyr. 3-yr. S..... 6.50 60.00

Pinus resinosa, 3-yr. S..... 7.00 60.00

Pinus Strobus, 3-yr. S..... 4.50 40.00

Pinus sylvestris, 3-yr. S..... 6.00 50.00

Pinus Thunbergi, 3-yr. S..... 6.00 50.00

Syringa vulgaris, 2-yr. S..... 4.00 30.00

Taxus capitata, 1-yr. S..... 5.00 40.00

Taxus capitata, T. 1-yr. S..... 6.00 50.00

Taxus capitata, T. 2-yr. S..... 16.00 150.00

Taxus canadensis, 2-yr. T..... 9.00 80.00

Viburnum theifolium, 1-yr. S..... 10.00 90.00

HEAVY, FIELD-GROWN STOCK

Bare-root and ready for Cloveret pots and
cash-and-carry trade.

Per 100

Acer palmatum atropurpureum..... \$400.00

15 to 18 ins. 80.00

Cornus florida, 2 to 3 ft. bushy..... 125.00

Cornus florida rubra, 18 to 24 ins. 100.00

Cornus Kousa, 3 to 4 ft. 100.00

The above stock has been several times
transplanted. Special price on large quantities.
Full list on demand.

VERKADE'S NURSERIES, Wayne, N. J.

LINING-OUT STOCK

SPRING 1955 SPRING 1955

Per 100 Per 1000

2000 Acer platanoides, 1-yr.
seedlings, 4 to 6 ins. \$ 7.00 \$ 60.00

5,000 Azalea mollis, 2-yr.
T. 4 to 6 ins. 25.00 200.00

5,000 Azalea mollis, 3-yr.
T. 6 to 9 ins. 35.00 300.00

800 Euonymus radicans, 2-yr.
TT, F.R., 4 to 5 ins. 35.00 300.00

800 Euonymus rad. Carrieri,
2-yr., TT, F.R., 35.00 300.00

4 to 6 ins. 35.00 300.00

1,000 Hydrangea P.G., 1-yr.,
9 to 12 ins. 15.00 140.00

1,500 Hydrangea P.G., 2-yr.,
T. F.R., 12 to 15 ins. 30.00 250.00

LINING-OUT STOCK—Continued

FOLLOWING LIST OF LINERS READY FOR IMMEDIATE SHIPMENT		
	100	1000
BIOTA aurea nana globosa, 2 1/2-in. pots.....	\$17.00	\$150.00
BIOTA Bakeri, 2 1/2-in. pots.....	17.00	150.00
BIOTA bonita, 2 1/2-in. pots.....	17.00	150.00
BIOTA bonita upright, 2 1/2-in. pots.....	17.00	150.00
BIOTA excelsa, 2 1/2-in. pots.....	17.00	150.00
BIOTA Howard's Bluecone, 2 1/2-in. pots.....	17.00	150.00
JUNIPERUS chinensis Hetzi glauca, 2 1/2-in. pots.....	17.00	150.00
JUNIPERUS chinensis Pfitzeriana, 2 1/2-in. pots.....	17.00	150.00
BROADLEAF EVERGREENS		
ABELIA grandiflora, 2-in. pots.....	\$15.00	\$125.00
EUNYMIUS japonicus, 2 1/2-in. pots.....	15.00	125.00
BURFORDI Holly, 2-in. pots.....	18.00	160.00
JASMINUM floridum, 2 1/2-in. pots.....	15.00	125.00
HYPERICUM Moserianum, 2-in. pots.....	15.00	125.00
LIGUSTRUM LUCIDUM COMPACTUM (Wax-leaved Ligustrum), 2 1/2-in. pots.....	15.00	125.00
LONICERA yunnanensis, 2-in. pots.....	15.00	125.00
ROOTED CUTTINGS		
BIOTA Howard's Bluecone, 1000 rate.....	\$80.00	
BIOTA Howard's Bluecone, 800 rate.....	80.00	
JUNIPERUS chinensis Hetzi glauca, 800 rate.....	80.00	
ABELIA grandiflora, 500 rate.....	50.00	
EUNYMIUS japonicus, 500 rate.....	50.00	
EUNYMIUS japonicus, 500 rate.....	50.00	
ILEX Burfordi (Burford Holly), 600 rate.....	60.00	
JASMINUM floridum (Florida Jasmine), 600 rate.....	60.00	
LIGUSTRUM LUCIDUM COMPACTUM (Wax-leaved Ligustrum), 500 rate.....	50.00	
LIGUSTRUM panicum compactum (Lodense Privet), 500 rate.....	50.00	
LONICERA yunnanensis, 500 rate.....	50.00	
POMEGRANATE, dwarf, 600 rate.....	60.00	

P. O. Box 828 Port Worth, Tex.

PINER LINERS

Come and see them, none finer anywhere.		
	Each, per 10	100 1000
Abelia grandiflora, 2 1/2-in. pots.....	\$0.20	\$0.17 1/2 \$0.16 1/2
Acer pal. atropurpureum, 2-yr. seedlings, 6 to 9 ins., 2 1/2-in. pots.....	.40	.35 .30
8 to 10 ins., 3-in. pots.....	.60	.50 .45
Franklinia alatamaha, 3-in. pots, from etgs., .75 .60 .50		
Hex crenata varieties below, 2 1/2-in. pots.....	.25	.20 .18
3-in. pots, heavy, .45 .35 .30		
Convexa, latifolia, microphylla, rotundifolia, Hex cr. convexa, latifolia and rotundifolia, rooted etgs., 4 to 6 ins., .11 .08 .07 1/2		
Pyracantha cocc. Lalandi, 2 1/2-in. pots, sel. etgs., .25 .20 .15		
3-in. pots, 1-yr., .45 .40 .35		
Pyracantha cocc. lowboy, 2 1/2-in. pots, sel. etgs., .30 .25 .22 1/2		
Viburnum Burkwoodi, 2 1/2-in. pots, strong, fr. etgs., .45 .35 .32 1/2		
3-in. pots, 1-yr., .55 .45 .40		
Viburnum Carlesi, 2 1/2-in. pots, strong, fr. etgs., .45 .35 .32 1/2		
Many, many other items. Send for list, 50 at 100 rate; 500 at 1000 rate.		
JOHN VERMEULEN & SON, INC.		
Phone Foxcroft 9-5211 Neshanic Sta., N. J.		

LINING-OUT STOCK

Nice, healthy, well-rooted stock.		
	6 to 8 ins.	8 to 12 ins.
Feijoa (Pineapple Guava).....	\$12.50	\$15.00
Gardenia Fortunei.....	7.50	10.00
Gardenia Mystery.....	7.50	10.00
Gardenia radicans.....	7.50	10.00
Hex cornuta Burfordi.....	15.00	17.50
Hex crenata Rotundifolia.....	15.00	17.50
Osmanthus fragrans.....	12.50	15.00
Retinispora ericoides.....	10.00	12.50

BLACKWELL NURSERIES,

Sommer, Ala.

Wholesale only.

BETTER BECAUSE THEY'RE FINER LINERS		
Come see them, none finer anywhere.		
HINO-CRIMSON, Each 100 1000	5000	
In flats (call or del.).....	\$0.17 1/2 \$0.15 \$0.13 1/2	
From 2 1/2-in. pots.....	.20 .17 1/2 .16	
From beds, 2-yr., 6 to 12 ins. XX.....	.65 .60 .55	
Also Gabies Ghenta, Kaempferi, Mollis, Vuykianus and others. Send for list.		
JOHN VERMEULEN & SON, INC.		
Phone Foxcroft 9-5211 Neshanic Sta., N. J.		

PYRACANTHA COCCINEA LALANDI		
Hardy stock from selected fruiting plants.		
	Per 100	Per 1000
Strong 1-year rooted cuttings, 4 to 6 ins.,.....	\$12.50	
2 1/2-in. pots, 6 to 8 ins., br.,.....	25.00	
3-in. pots, TT, 8 to 10 ins., br.,.....	32.50	
PYRACANTHA KASAN (supply limited) 3-in. pots, TT, 6 to 8 ins., br.,.....	45.00	
Free packing. Cash with order.		
BACOCK GARDENS		
Route 3 Jamestown, N. Y.		

EVERGREENS

	Each	Per 100
Pfitzer Juniper, TT, field, plant bands, 6 to 8-in.,.....	\$0.14 1/2	
Andorra Jun., bands, 6 to 10 ins.,.....	.12 1/2	
extra heavy.....	.16 1/2	
Blue Hetz Jun., bands, 6 to 8 ins.,.....	.12 1/2	
Savin Jun., bands, 8 to 10 ins.,.....	.12 1/2	
extra heavy.....	.16 1/2	
Van Eghon Jun., bands, 11 to 13 ins.,.....	.12 1/2	
extra heavy.....	.16 1/2	
bare-root, 8 to 10 ins. (topped).....	.06	
Spreading Jap. Yew, bands, 6 to 8 ins.,.....	.20	
Upright Jap. Yew, bands, 6 to 8 ins.,.....	.20	
BROADLEAFS		
Eunonymus patens, small-leaved, 6 to 10 ins., bare-root.....	.04	
DECIDUOUS, Bare-root		
Blue Spiraea (caryopteris), 5 to 6 ins.,.....	.03 1/2	
Chinese Beauty-Berry, 6 to 8 ins.,.....	.03 1/2	
Desmodium penduliflorum, 5 to 6 ins.,.....	.05	
Deutzia gracilis, bands, 6 to 8 ins.,.....	.12 1/2	
Weigela, dwarf, variegated; 3 to 5 ins.,.....	.04	
PERENNIALS		
Lythrum Mordens Pink, 4 to 6 ins.,.....	.03 1/2	
Little Gem, Purity or Snowflake, 1 1/2 to 2 ins.,.....	.04	
All prices 300 or more total order, 50 of a variety, Less than 300, add 2c per plant.		
MCINCH GREENHOUSES		
St. Joseph, Mo.		

ROOTED CUTTINGS TO GROW ON

	Per 100	Per 1000
Biota or Berckmans' Golden, 25 at 100 rate.....	\$15.00	
Biota decussata Weaveri, dwarf, blue.....	15.00	
Biota globosa, Weaveri, dwarf, green.....	15.00	
Juniperus excelsa stricta, Spiny Greek.....	12.00	
Juniperus ch., Pfitzer Juniper.....	12.00	
Eunonymus vegetus, hardy Evergreen.....	8.00	
Cotoneaster acutifolia, Peking C.....	10.00	
Cotoneaster horizontalis, Rock Spray.....	10.00	
Saxif. purpurea, blue leaf.....	6.00	
Spiraea Anthony Waterer, dwarf, red.....	6.00	
Lythrum new Mordens Gleam.....	10.00	
Santolinas, gray foliage border plant.....	4.00	
Teucrium, dwarf, Evergreen border plant.....	8.00	
PRAIRIE SOUTHWEST FLORETUM		
Fall River, Kan.		

LINING-OUT STOCK

	Each	Per 100
Abies Pinsapo, 3-in. pot.....	\$0.35	
Daphne Cneorum, rooted cuttings.....	.12	
Daphne odora, 2-in. pot.....	.25	
Daphne Mezereum, seed.....	.07	
6 to 8 ins.,.....	.15	
Gentiana acaulis, 4 to 6-in. spread.....	1.00	
Juniperus tamaricifolia, 6 to 8 ins., X.....	.15	
8 to 10 ins., br. X.....	.27	
Thuja woodwardi globosa, 8 to 10 ins., br.....	.25	
Viburnum Burkwoodi, transplants.....	.20	
Viburnum Burkwoodi, rooted cuttings.....	.15	
Raphiolepis ovata, 2-yr.,.....	.18	
Cash with order, please.		
FOUR STAR NURSERY		
8215 238th, S.W. Edmonds, Wash.		

ILEX ROTUNDIFOLIA		
2-in. rosepot, 1-yr., 4 to 6 ins.,.....	\$18.00	per 100
1 1/2-in. rosepot, 1-yr., 3 to 5 ins.,.....	15.00	per 100
PYRACANTHA C. LALANDI		
2 1/2-in. pots, 1-yr.,.....	25.00	per 100
4-in. pots, 1-yr.,.....	50.00	per 100

ROOTED CUTTINGS

	Per 100	Per 1000
Eunonymus vegetus, 6 to 8 ins.,.....	7.00	60.00
Eunonymus coloratus, 6 to 8 ins.,.....	7.00	60.00
Foraythia Lynwood Gold.....	12.00	
Caryopteris.....	10.00	80.00
Teucrium Chamaedrys.....	5.00	45.00
EDWARD GILSON & SON NURSERY		
U. S. Rt. 20 Perry, O.		

PEONIES

PEONIES		
Strong 3 to 5-eye divisions, in storage, 5 of a kind to 10 pots; 25 at 100 rate.		
Packing free for cash with order.		
	Per 10	Per 100
150 Couronne d'Or, white.....	\$ 4.00	\$35.00
400 Duchesse de Orleans, pink.....	3.50	30.00
100 Duc de Wellington, white.....	3.50	30.00
300 Francois Ortegar, red.....	3.50	30.00
200 Lillian Wild, immense white.....	10.00	75.00
60 Marg. Gerard, hyd.-pink.....	3.50	30.00
50 Marie Jacquin, semi-double white.....	6.00	50.00
300 Officinalis rubra, early red.....	6.50	60.00
300 Red Rocket, bright red.....	6.00	50.00
JAPANESE PEONIES		
50 Dr. Jekyll, dark red.....	5.00	40.00
40 Mikado, crimson.....	6.00	50.00
50 Nippon Beauty, red.....	5.00	40.00
PENNANT MIXED PEONIES		
400 Crown mixed, not labeled.....	2.80	25.00
SARCOXIE NURSERIES PEONY FIELDS		
Wild Bros. Nursery Co. Sarcoxie, Mo.		
Tree peonies, named; yearling grafts regularly \$15.00 per 10, \$125.00 per 100. Deduct 20 per cent on May orders. Send 25 per cent deposit. Late fall delivery. White, pink, red, purple. Atha Nursery, West Liberty, O.		

PHLOX

PHLOXES		
\$9.00 per 100, \$80.00 per 1000. Also planting stock available. 44 varieties. Write for list.		
GULDEMOND NURSERIES, Galesburg, Mich.		

PHLOX SUBULATA (Creeping Phlox)

Admiration, dainty pink with white eye	
Alba, pure white flowers	
Astro, deep orchid-rose	
Blue Hills, attractive pale blue	
Butterfly, lilac bluish with purple eye	
Crimson Beauty, showy cyclamen-red	
Sensation, pure pink with red eye	
Transplants, from field rows, \$9.00 per 100, \$85.00 per 1000, prepaid.	
Liners, \$5.00 per 100, \$45.00 per 1000, prepaid.	

250 or more of a variety at 1000 rate.
Properly moss packed, labeled and shipped transportation prepaid by us. Cash, please.

TANGLEWOOD FARM

Box 336-N Clinton, S. C.

PHLOX SUBULATA (MOSS PHLOX)

We still have a limited supply of mature, field-grown clumps ready for shipment after March 1.
30,000 Atropurpurea, rich wine-red.
\$12.00 per 100, \$100.00 per 1000.

WALTERS GARDENS

Rt. 2 Zeeland, Mich.

HARDY PHLOXES

Write for complete list.

FLOR-ACRES, BRIDGMAN, MICH.

RHODODENDRONS

RHODODENDRON HYBRIDS
1-year, field-grown grafted plants imported from Holland in the spring, \$75.00 per 100, \$350.00 per 500, \$650.00 per 1000 lot.
List of varieties on demand.

VERKADE'S NURSERIES, Wayne, N. J.

ROSEBUSHES

ROSEBUSHES
No BETTER Rosebushes can be had from any source at any price. A trial order will convince the most skeptical. Roses may be shipped now or later.

RED	WHITE
Red Talisman	White American Beauty
Better Times	Caledonia
Red Radiance	K. A. Victoria
Etoile de Hollande	Syracuse
Rouge Mallerin	F. K. Druschki
Grenoble	POLYANTHUS
Poinsettia	Baby Chateau
Ami Quinard	Ideal
Chas. K. Douglas	Golden Salmon
PINK	Kirsten Poulsen
Betty Upchurch	Red Lafayette
Editor McFarland	Mrs. R. M. Finch
Columbia	Red Ripples
Pink Radiance	Flora Dora
Mrs. Chas. Bell	Orange Triumph
Doctor	CLIMBERS
Picture	Blaze
Contrast	Cecile Brunner
Numa Fay	Talisman
TWO-TONE	Rouge Mallerin
Talisman	Paul's Scarlet
Pres. Hoover	Red Radiance
R. N. Perkins	Caledonia
Condesa de Sagato	Mrs. P. S. du Pont
YELLOW	Pink Radiance
Golden Charm	Golden Charm
Golden Dawn	Red Talisman
Golden Ophelia	Red American Beauty
Secur Therese	New Dawn
Luxembourg	
Betty Grace Clark	
Golden Sagato	

PRICES: Bare-root, F.O.B. Overton, Tex.
Per 100 Per 1000

No. 1.....	32c ea.	28c ea.
No. 1 1/2.....	27c ea.	22c ea.
No. 2.....	15c ea.	15c ea.

INDIVIDUALLY WRAPPED, paraffin dipped with picture tag for counter trade. 15c extra per bush, 3 in 1. No. 2, at 75c per pack, Cash with order, or 25 per cent deposit and balance C.O.D.

NEW LONDON ROSES

Box 876 Overton, Tex.

MINIATURE ROSES

Continuous blooming tiny plants, grow 8 to 12 ins. tall. Fast selling pot plants, excellent low border and rock garden plants.		
Rosa Oakington Ruby, ruby-red.		
Rosa Rouletti, cerise-pink.		
	Per 10	Per 100
2-in. pot size.....	\$3.00	\$25.00
2 1/2-in. pot size.....	4.00	35.00
Centennial Miss, dbl., deep-wine red; 2-in. pot size.....	5.00	45.00
Patty Lou, bi-color, rose-red with silver-pink reverse; 2-in. pot size.....	5.00	45.00
Juliette, large, brilliant crimson; 2-in. pot size.....	5.00	45.00
Red Imp, pat. 1032, rich red; 2-in. pot size.....	6.50	55.00
Pixie, pat. 408, full double white; 2-in. pot size.....	6.50	55.00
Thumbelina, brilliant crimson; 2-in. pot size.....	4.00	35.00
Sweet Fairy, rose-red buds open to appleblossom-pink; pat. 748; 2-in. pot size.....	6.50	55.00
BOHLENDER NURSERIES CO. Tipp City, O.		

HIGHEST QUALITY, FIELD-GROWN
ROSES

No better or cleaner stock than Krider Roses. Properly fertilized, well-sprayed and dusted during growing season makes them vigorous and disease-free. Ideal for potting. Order now for immediate or later delivery. Satisfaction guaranteed.

RED		PINK	
Etelle de Hollande	Editor McFarland	McGredy's Scarlet	Picture
Red Radiance	Radiance	Crimson Glory	Betty Upchurch
WHITE		FLORIBUNDAS	
K. A. Victoria	Red Ripples, red	Chateau, scarlet	
Koenigsm Lulse	Imp. Lafayette, red		
YELLOW		POLYANTHES	
Mrs. P. S. du Pont	Golden Salmon		
Yellow Condesa	Orleans, pink		
TWO-TONED		CLIMBING	
Condesa de Santiago	Edith Cavell, red		
Tallman	Amer. Beauty, red		
Prized	Per 10 Per 100 Per 1000		
2-year, No. 1	\$5.50	\$50.00	\$450.00
2-year, No. 1 1/2	4.50	37.50	350.00
Orders of 250 or more take the 1000 rate.			
PATENTED TEA ROSES		10	
Festival, red thornless	\$10.00	\$85.00	
Mirandy, dark red	12.50	105.00	
Sutter's Gold, deep gold	12.50	105.00	
Buccaneer, canary yellow	14.00	120.00	
Helen Traubel, two-tone pink	14.00	120.00	
FLORIBUNDA ROSES		11.00	
Fashion, pink-gold	9.00	75.00	
Goldlocks, flesh and gold	9.00	75.00	
Pinocchio, pink	11.00	95.00	
Lilbet, salmon	11.00	95.00	
Ma Perkins, pink	11.00	95.00	
THE KRIDER NURSERIES, INC. Middlebury, Ind.			

WESTERN-GROWN ROSES.

2-YR. NO. 1 GRADE.

In storage and available for immediate shipment subject to prior sale.

100 Ena Harkness	\$0.55
100 Crimison Glory	.55
100 Christopher Stone	.55
150 Frau Karl Druschki	.55
50 Eclipse	.55
150 Pres. Hoover	.55
100 Picture	.55
80 Pres. Eisenhower	1.25
70 Charlotte Armstrong	1.12 1/2
50 Meljave	1.37 1/2
50 Pageant	1.25
50 Helen Traubel	1.20
100 Golden Masterpiece	1.25
100 Peace	1.20
50 Sutter's Gold	1.12 1/2
50 Cl. Coral Dawn	1.25
50 Cl. Goldlocks	1.25
250 Cl. Improved Blaze	.55
100 Betty Prior	.70
50 Jimmy Cricket	1.40
50 Vogue	1.00
50 Baby Blaze	1.12 1/2
50 Siren	1.12 1/2
50 Dean Collins	1.25
50 Queen Elizabeth	1.37 1/2
50 Tiffany	1.50

All priced F.O.B. Spokane, Wash. Cash with order, please.

STANEK'S NURSERY

E. 2929-29th Ave. Spokane 33, Wash.

STRONG NO. 1, FIELD-GROWN ROSES
NEW JERSEY GROWN

Name	Each	10	100
Buccaneer (pat.), canary yellow	\$1.40	\$1.20	
Fandango (pat.), deep scarlet	1.10	.95	
Forty-niner (pat.), bicolor	1.25	1.05	
Helen Traubel (pat.), apricot-pink	1.40	1.20	
Mirandy (pat.), maroon-red	1.10	.95	
Peace (pat.), golden yellow	1.40	1.20	
Rubaiyat (pat.), brilliant red	1.00	.80	

TURNER BROS. NURSERY

Monmouth and Parker Rds.

West Long Branch, N. J.

NORTHERN OHIO GROWN ROSES

Naturally Matured—Consistently Handled
If you have not as yet received it, ask for our list of Hybrid Teas, Floribundas and Climbers in the newest and best varieties.
For 30 years a consistently reliable source of finer roses.

GERARD K. KLYN, Inc.

Mentor, O.

ROSA RUGOSA		100	1000
2000 1-year seedlings	\$5.50	\$45.00	
1500 6 to 8 ins.	8.50	75.00	
1500 9 to 12 ins.	12.50	110.00	
5000 12 to 15 ins.	25.00	200.00	
5000 15 to 18 ins.	35.00	300.00	

BOULEVARD NURSERIES

Newport, R. I.

ROSA MULTIFLORA

		Per 100	Per 1000
6 to 12-in. grade	\$2.75	\$19.50	
12 to 15-in. grade	3.50	25.00	
18 to 24-in. grade	4.25	33.00	

Quoted F.O.B. Tipton City, O.

BOHLER NURSERIES CO.

Tipton City, O.

ROSEBUSHES

Good roses will not be in oversupply. Early bookings are indicated. List now ready. Send for your copy today.
MARTIN'S ROSE NURSERY
P. O. Box 155 Tel.: 713 Arp, Tex.

SEEDS

LAWN SEED

Wholesale prices for the professional trade.	
50 lbs. 100 lbs.	
Landscape Gardeners' Mixture	\$31.00 \$59.00
Cemetery Mixture	34.00 65.00
Athletic Field Mixture	26.00 49.00
Shady Mixture	27.00 51.00
F.O.B. New York. 300 lbs. shipped freight paid.	

Merion Blue Zoysia Mixture

1 lb. covers 790 sq. ft., \$4.50 per lb., post-paid.

HERBST BROTHERS

SEEDSMEN, INC.

678 Broadway New York 12, N. Y.

SHRUBS AND TREES

ROOTED CUTTINGS

TRANSPLANTED IN FLATS

	Per 100	Per 1000
Azalea Hino Crimison,		
4 to 6 ins.	\$15.00	\$125.00
Azalea Hinodogiri,		
4 to 6 ins.	15.00	125.00
Pieria japonica, 4 to 6 ins.	15.00	125.00

ROOTED CUTTINGS

1-YR. BEDDED

Buxus sempervirens, 4 to 6 ins.	10.00	90.00
Euonymus pateras, 5 to 8 ins.	10.00	90.00
Ilex bullata, 4 to 6 ins.	85.00	850.00
Ilex crenata, 5 to 8 ins.	10.00	90.00
Ilex rotundifolia, 5 to 8 ins.	12.00	100.00
Juniper, Andorra, 4 to 8 ins.	12.00	100.00
Juniper, Pfitzer, 4 to 6 ins.	12.00	100.00
Juniperus stricta, 4 to 6 ins.	12.00	100.00
Pachysandra	4.00	35.00
Retinispora plumosa aurea,		
6 to 8 ins.	10.00	90.00

Retinispora plumosa,		
6 to 8 ins.	10.00	90.00
Taxus cuspidata, 4 to 6 ins.	10.00	90.00
Taxus Hicksi, 4 to 6 ins.	10.00	90.00
Thuja nigra, 4 to 6 ins.	10.00	90.00
Thuja Vervaeckiana, 5 to 8 ins.	12.00	100.00

TRANSPLANTS

Thuja occidentalis, 5 to 8 ins.	10.00	90.00
Picea pungens glauca,		
4 to 6 ins.	7.00	60.00
Tsuga canadensis, 5 to 8 ins.	10.00	90.00
Tsuga canadensis, 8 to 10 ins.	15.00	140.00
Tsuga canadensis, 10 to 12 ins.	20.00	190.00

Acer palmatum, 6 to 8 ins.	4.00	35.00
Cornus florida, 6 to 15 ins.	4.00	35.00
Taxus capitata	5.00	40.00
Taxus capitata (transplanted)	6.00	50.00

2-YEAR SEEDLINGS

Douglas Fir, 3 to 5 ins.	4.00	35.00
Ilex crenata, 4 to 6 ins.	4.00	35.00

3-YEAR SEEDLINGS

Picea excelsa, 4 to 6 ins.	3.50	25.00
Picea pungens glauca,		
4 to 6 ins.	4.00	35.00
Picea, White Spruce, 4 to 6 ins.	3.50	25.00
Pinus Strobus, 4 to 6 ins.	3.50	25.00
Pinus sylvestris, 4 to 6 ins.	3.50	25.00
Pinus tyroleana Mugo, 3-in.	4.00	30.00
Thuja occidentalis, 3 to 4 ins.	5.00	40.00
Thuja orientalis, 3 to 4 ins.	5.00	40.00
Tsuga canadensis, 3 to 4 ins.	6.00	50.00
Tsuga caroliniana, 3 to 4 ins.	6.00	50.00

2-YEAR TRANSPLANTS

Azalea Hinodogiri	\$30.00	....
Azalea Hino Crimison	30.00	....
Azalea mollis	15.00	....

POTTED GRAFTS FOR SPRING 1955:

	Per 100
Acer palmatum atropurpureum	\$ 65.00
Picea pungens Moerhousii	100.00
Picea pungens Kosteriana	100.00
Pinus Cembra	50.00
Pinus parviflora glauca	50.00
Pinus Strobus nana	50.00
Pinus Strobus pendula	50.00
Tsuga canadensis Sargentii	50.00

Berdan Ave. Peabody, N. J.

For \$3.50

you can offer that surplus in a classified ad of 10 lines on these pages—quickly and easily turning stock into cash.

AT 35c PER LINE

you can keep a list of specialty items before trade buyers through the selling season at small cost.

Send your copy (count 6 average words to line) for the next issue to reach us by April 29.

AMERICAN NURSERYMAN

343 S. Dearborn St. CHICAGO 4, ILL.

COTONEASTERS AND BUDDLEIAS

Excellent finished landscape material.

	Each, per 100
Cotoneaster divaricata, 3-yr., B&B	
2 to 3 ft.	\$1.00
3 to 4 ft.	1.50
4 to 4 1/2 ft.	2.00
Cotoneaster Zabeli, 3-yr., B&B, 2 to 3 ft.	1.50
Cotoneaster divaricata, 2-yr., L.O.S.	
18 to 24 ins.	.37 1/2
Buddleia (lining-out stock), 2-in. pots	

Charming, light pink	\$12.50
Dubonnet, lavender	12.50
Fascination, deep pink	12.50
Imperial Purple, deep purple	15.00
Red Velvet, red	15.00
Snowbank, pure white	12.50

Spring delivery
FLORAL GARDENS, EATON, O.

VIBURNUM CARLESI

This is the first time since the beginning of the war that we have been able to offer a supply of Viburnum Carlesi seedlings. All these years we have not been able to buy any seed and still cannot, but can offer these seedlings because we have our own seed by this time. We offer the following for spring, 1955:

Strong, 2-yr. seedlings	Per 100	Per 1000
4 to 6 ins.	\$15.00	\$125.00
6 to 8 ins.	20.00	175.00
8 to 12 ins.	30.00	250.00
Transplants, branched, mail-order size, 12 to 18 ins.	\$75.00 per 100.	

C. HOOGEDOORN

Turner Rd. Newport, R. I.

SHRUB LINERS

	Per 100	Per 1000
Aronia arbutifolia brilliantissima,		
1-yr. seedlings, 4 to 6 ins.	\$ 6.00	\$50.00
Deutzia gracilis, 4 to 6 ins.	6.00	50.00
6 to 8 ins.	8.00	75.00
1-yr. field, 8 to 12 ins.	35.00	....
Foraythia Spring Glory,		
liners, 4 to 6 ins.	6.00	50.00
liners, 8 to 12 ins.	10.00	90.00
field-grown, 2 to 3 ft.	40.00	....

PLANE VIEW NURSERY

Newport, R. I.

EUONYMUS ALATUS AND

ALATUS COMPACTUS LINERS

NOW SOLD OUT.

Will have a good supply for next season. We offer for April or May delivery 400 Viburnum tomentosum, 2 1/2-in. pots. Last summer's cuttings, well-rooted, overwintered in frames. \$13.50 per 100, \$50.00 for the lot.

Cash with order, please.
JOHN BOS NURSERY
Clyde, O.

DOGWOOD

Cornus florida, white, mammoth-flowering, straight, branched tops, 2 to 3 ft., \$17.50 per 100, \$130.00 per 1000; 3 to 4 ft., \$25.00 per 100, \$180.00 per 1000.

Red, deep pink flowering, and plena double white flowering, 12 to 18 ins., \$100.00 per 100; 18 to 24 ins., \$160.00 per 100; 24 to 30 ins., \$200.00 per 100. Real nice grafted trees. Satisfaction guaranteed.
ROBINSON NURSERY CO., Greenville, Ga.
Phone: 500W5

OAK SEEDLINGS

(Quercus)

We are offering the following variety, grown under irrigation. Red Oak (Borealis).

	Per 100	Per 1000
9 to 12 ins., 2 yr.	\$ 6.00	\$ 60.00
12 to 18 ins., 2-yr.	8.00	75.00
18 to 24 ins., 2 and 3-yr.	11.00	100.00

HAGERTY LANDSCAPE NURSERY

2600 S. 48th Lincoln 6, Neb.

ACER SACCHARUM

	Each, per 100
4 to 6 ft.	\$0.20
6 to 8 ft., L.	.75
6 to 8 ft., L.	1.25
8 to 9 ft.	2.00
European Larch, 1 to 1 1/2 ft.	.10
Cornus Amomum, 1 to 1 1/2 ft.	.06
Honeysuckle, tatarica (bush) 1 ft.	.04

UNADILLA NURSERY, Johnson City, N. Y.

DOUBLE PINK JAPANESE FLOWERING

CHERRIES (Kwanzan)

	Per 100
Strong 1-yr. grafts, 12 to 18 ins.	\$50.00
Strong 1-yr. grafts, 18 to 24 ins.	75.00

C. HOOGEDOORN

Turner Rd. Newport, R. I.

NEW DWARF RED BARBERRY

CRIMSON PIGMY

2 1/2-in. pots, \$25.00 per 100, \$225.00 per 1000. Write for price list.

GULF STREAM NURSERY, INC.

Jacques L. Legendre, Pres.

Wachapreague, Va.

POTTED GRAFTS

Acer Faasens Black	\$ 60.00 per 100
Picea pungens Moerhousii	100.00 per 100
Cornus florida rubra	50.00 per 100

FRANKE'S NURSERIES

Waterford Works, N. J.

Quick — Convenient — Cheap!

Selling through the Classified Ads

of the American Nurseryman.

VEGETABLE ROOTS

VEGETABLE PLANTS
OUTDOOR-GROWN, READY NOW
WRITE FOR COMPLETE LIST
OF POPULAR VARIETIES
 State inspected, carefully packed.
 Cabbage, popular varieties \$2.50 per 1000
 Red Acre Cabbage 2.50 per 1000
 Onions, popular varieties 3.50 per 1000
 Tomatoes, popular varieties 2.65 per 1000
 Hybrid Tomatoes 4.15 per 1000
 Peppers, hot 3.50 per 1000
 Peppers, sweet 2.95 per 1000
 Sweet Potato Porto Rico 3.95 per 1000
 Sweet Potato Red Velvet 5.00 per 1000
 All plants above are F.O.B. plant farm.
 Please tell us what size plants you need. We have 2-in. to 15-in. size plants.
PLEASE NOTE: We will wrap the roots of each bunch of plants (except Onions) for only 50¢ per 1000 plants extra. We use waterproof paper and damp sphagnum moss.
 500 Cabbage plants, postpaid \$1.95
 500 Onion plants, postpaid 1.35
 500 Tomato plants, postpaid 2.60
 500 Pepper plants, postpaid 3.00
 500 Sweet Potato slips, postpaid 3.20
 All guaranteed, fresh pulled, true-to-name.
W. G. FARRIER PLANT CO.
 Box 555 Omaha, Tex.

CHIPMAN'S CANADIAN RED RHUBARB
 \$35.00 PER 100
MICHIGAN FORCING, deep red Rhubarb
 \$20 PER 100
 25 OF EITHER KIND AT 100 RATE.
ALL ARE NO. 1 DIVISIONS.
VAN DE MOORTELL PERENNIAL
GARDENS
 7250 18½ Mile Rd.
 Utica, Mich.

VICTORIA RHUBARB ROOTS
 at Christmas: 12 to 18 ins., \$10.00 per 100,
 ¼ to 1-in., \$25.00 per 1000.
 No charge for boxing. Can ship anytime.
ASHCRAFT'S NURSERY
 Copemish, Mich.

More customers for you!
 Over 8,000 subscribers, all active buyers,
 see your ad in the American Nurseryman.

VINES

LONICERA FRAGRANTISSIMA (Winter Honeysuckle), extremely fragrant; blossoms at Christmas: 12 to 18 ins., \$10.00 per 100, \$90.00 per 1000; 18 to 24 ins., \$15.00 per 100, \$120.00 per 1000. Full, nice No. 1 plants.
ROBINSON NURSERY CO., Greenville, Ga.
 Phone: 500W5

HONEYSUCKLES
 Lonicera japonica Halliana, extra-heavy No. 1, 3 and 4-yr., 18 to 24-in. field plants, 3 and 4 leads, \$40.00 per 100; lighter grade, \$30.00 per 1000; sample 100, \$5.00. Experienced labor for grading and packing quantity orders. Immediate shipment. No order too large.
ROBINSON NURSERY CO., Greenville, Ga.
 Phone: 500W5

Quick — Convenient — Cheap!
 Selling through the Classified Ads of the American Nurseryman.

WANTED

WANTED

We are interested in buying 20 Koster or Moerheim Blue Spruce, 18 to 20-ft. tall, branched to the ground and first-class specimens.

ROCK CREEK NURSERIES
 Rockville, Md.

Turn Stock into Dollars
 by Listing It in the Classified Ads of the American Nurseryman.

SUPPLIES AND SERVICES

BIRDHOUSES

WREN HOUSES
 California redwood; well constructed; removable bottom. Please order in units of 4 for \$7.10; 12 for \$3.60 each. Express collect. Sample, \$1.95, postpaid. Cash, please.
BIRCHWOOD GARDENS
 Box 24 Lowell, Mich.

BOOKS

GARDEN BOOKS FOR RESALE
 SELECTED TITLES FROM LEADING PUBLISHERS. THE PROVEN BEST SELLERS ON LAWNS, LANDSCAPING, BULBS, INDOOR GARDENING, FLOWER ARRANGING, ETC.
ASK FOR OUR GARDEN SHOP LIBRARY LIST—N. L. McHUTCHISON & CO.
 95 Chambers St., New York 7, N. Y.

FERTILIZERS

SOLUBLE FERTILIZERS
PETERS SPECIAL, 20-20-20, general purpose fertilizer.
PETERS SPECIAL, 21-7-7, azalea special, chelated iron.
 \$6.00 per 25-lb. bag, \$20.00 per 100 lbs.
F.O.B. Allentown, Pa.
ROBERT B. PETERS CO.
 733 N. 7th St., Allentown, Pa.

Watch Your Results From
 American Nurseryman Classified Ads

FLATS

MINNESOTA WHITE CEDAR FLATS
 Order by No. Wt. Price per 100
 No. 1, 14x20x2 ¾ 320 \$25.00
 No. 2, 14x20x2 ¾ 400 29.00
 No. 3, 12x16x2 ¾ 260 19.00
 No. 4, 12x16x3 ¾ 275 22.50
 No. 5, 14x16x2 ¾ 275 21.50
 No. 6, 14x16x3 ¾ 290 25.50
 No. 7, 15x22 ½ x2 ¾ 380 28.50
 No. 8, 15x22 ½ x2 ¾ 425 33.00
 No. 9, 11 ¼ x22 ½ x2 ¾ 320 23.00
 No. 10, 11 ¼ x22 ½ x3 ¾ 400 26.75
 No. 11, 14x16x5 450 30.00
 No. 12, 5x11x5 160 16.00
 No. 13, 5x16x5 215 18.50
 Plant Boxes, 5x8 ½ x2 ¾ 45 5.00
 All other sizes quoted on request.
 5 per cent discount on orders of 1000 or more.

The above measurements are inside. Bottoms and sides of cedar flats are ¾-in. thick; ends are ¾-in. Plant boxes are thinner. All material surfaced on one side.
 Your name and address printed up to 3 lines in black ink, on one or both end pieces at the following rates: Set-up charge, \$1.00, plus ¾¢ per line for the first 1000 ends, ½¢ per end thereafter. Shipped knocked-down in units of 25.
 All shipments by truck unless otherwise ordered. F.O.B. Cook, Minn. Attach check.
H. C. HILL & SONS, Cook, Minn.

REDWOOD FLATS, K. D.
 Finest stock obtainable. Guaranteed all clear heart. Size 20x15x3 ins. inside measure, \$38.00 per 100.
 1x1-in. Cypress stakes, pointed, 50 pcs. to bundle, 4 ft., \$3.50 per bdl.
 50 pcs. to bundle, 5 ft., \$4.50 per bdl.
 50 pcs. to bundle, 6 ft., \$5.50 per bdl.
 Ship same day. Cash with order, please.
YOHO & HOOKER, Youngstown 2, Ohio

LABELS

DAHIA OR TREE LABELS
 Priced per 1000
 Plain Painted
 3 ½ x ¾ ins., notched (not wired) \$2.50 \$3.00
 3 ½ x ¾ ins., wired (copied) 3.30 4.10
POT LABELS
 4x ¾ ins. (cartons 1000 each) 3.30 3.95
 5x ¾ ins. (cartons 1000 each) 3.60 4.30
 6x ¾ ins. (cartons 1000 each) 3.90 4.85
 8x ¾ ins. (cartons 500 each) 6.00 7.20
 10x ¾ ins. (cartons 500 each) 7.00 8.50

GARDEN STAKES
 Price per carton
 8x ¾ ins. (cartons 250 each) 2.50 3.00
 10x ¾ ins. (cartons 250 each) 2.75 3.25
 12x1 ½ ins. (cartons 100 each) 1.75 2.00
EVERMARK PENCILS
 The original label marker. 1 doz. 7-in. pencils per box, \$1.25
 Our labels are perfectly white and smooth on both sides and are pronounced by growers the best and most economical.
"We ship the same day."
YOHO & HOOKER
 Youngstown 2, O.

ORCHID SUPPLIES

OSMUNDA, fresh "live" fiber; dark mixed; light, \$8.00; 2 bales, \$15.00. F.O.B. Fla. Two bales shipped as cheaply as one.
WIRE STAKES, No. 10, ga. galvanized wire.
 Per 1000 Per doz.
 14 ins. \$2.30 \$24.00 \$0.35
 18 ins. 3.60 30.00 .45
 24 ins. 4.80 40.00 .60
SPARKLAPAK, for packing blooms. Easy to use; does not mat or pack down. Enhances the beauty of your blooms.
 70¢ per lb., \$6.25 per 10 lbs.
 Priced F.O.B. Subject to change without notice.
WRIGHTWOOD FLORAL CO., INC.
 2407 N. Main St., Houston 9, Tex.

PLANT TUBS

UTILITY PLANT TUBS
 Made from New England White Pine
 F.O.B.
 New Hampshire Chicago
 Per 100 Per 100
 Size Green White Green White
 7 x 7 ins. \$ 77.50 \$ 85.00 \$ 85.00 \$ 92.50
 8 x 5 ins. 72.50 80.00 80.00 87.50
 8 ½ x 6 ½ ins. 75.00 82.50 82.50 90.00
 8 x 8 ins. 80.00 87.50 87.50 95.00
 9 x 6 ins. 77.50 85.00 85.00 92.50
 9 x 9 ins. 85.00 92.50 95.00 102.50
 10 ½ x 6 ½ ins. 85.00 92.50 95.00 102.50
 10 x 9 ins. 92.50 100.00 107.50 115.00
 11 x 7 ins. 85.00 92.50 100.00 107.50
 12 x 7 ins. 92.50 100.00 107.50 115.00
 12 x 9 ins. 110.00 117.50 120.00 127.50
 12 x 11 ins. 145.00 152.50 165.00 172.50
 14 x 8 ins. 150.00 157.50 170.00 177.50
 14 x 13 ins. 175.00 182.50 195.00 202.50
ALEC HENDERSON, INC.
 1305 W. Randolph St., Chicago 7, Ill.
 Phone: Monroe 6-3082

SPHAGNUM MOSS

NO. 1 MOSS, CLEAN, LONG-FIBERED.
 Size 44x15x12, \$1.50 per bale. Ground sphagnum moss for seed germination, with instructions; about 2-bu. bags, at 90¢ per bag, in lots of 10 or more. Special quantity prices; price us for truckload ordered.
WARRENS MOSS CO., Warrens, Wis.

STAKES

BAMBOO CANE STAKES
 Dyed green, pencil thickness.
 Packed 2000 per bale
 Per 1000 Per bale
 1 ½ ft. \$ 3.50 \$ 6.00
 2 ft. 4.50 8.00
 2 ½ ft. 5.50 10.00
 3 ft. 7.00 13.00
 3 ½ ft. 8.50 16.00
 4 ft. 9.50 18.00
 5 ft. 12.50 24.00
 6 ft., per bale of 500, \$10.00.
SPLIT BAMBOO, DYED GREEN
 Per 1000 Per bale (5000)
 12 ins. \$2.50 \$10.00
 15 ins. 3.50 15.00
 18 ins. 4.50 20.00
 24 ins. 5.50 25.00
F.O.B. CHICAGO
 Quantity discounts: 10 bales up, less 5 per cent; 25 bales up, less 10 per cent.
ALEC HENDERSON, INC.
 1305 W. Randolph St., Chicago 7, Ill.

EVERLAST
CALIFORNIA REDWOOD STAKES
 Made from straight-grained, natural finish CALIFORNIA REDWOOD, especially for nurseries, seed stores and garden shops.
 Approx. 1-in. square, 81 stakes per unit.
 4 ft. stakes \$ 5.50
 5 ft. stakes 6.75
 6 ft. stakes 8.25
 7 ft. stakes 10.00
 8 ft. stakes 11.00
 Approx. ½-in. square, 324 stakes per unit.
 3 ft. stakes 8.00
 4 ft. stakes 13.00
 5 ft. stakes 16.50
 Prompt shipment from warehouse stock.
 All prices F.O.B. Portland, Ore.
 Write for special prices on bulk stakes. 2500 up, of a size, minimum quantity.
McHUTCHISON & CO.
 311 S. E. Belmont St., Portland, Ore.

CYPRESS PLANT STAKES
 50 Pieces to Bundle.
 1x1-in.—3 ft., pointed \$3.00 per bundle
 1x1-in.—4 ft., pointed 3.50 per bundle
 1x1-in.—5 ft., pointed 4.50 per bundle
 1x1-in.—6 ft., pointed 5.50 per bundle
 1x1-in.—7 ft., pointed 7.00 per bundle
 These stakes are made of cypress and redwood, are good, strong stakes and will give long service. "A little better than seems necessary."

WE SHIP SAME DAY!
YOHO & HOOKER
 Youngstown 2, O.
HEAVY BAMBOO STAKES
 Per 100 ½ to ¾-in. ¾ to 1-in. ¾ to 1-in.
 4 ft. \$2.88 \$3.44 \$4.24
 5 ft. 3.60 4.30 5.30
 6 ft. 4.32 5.16 6.36
 7 ft. 5.04 6.02 7.42
 8 ft. 5.76 6.88 8.48
 2000 up, less 5%; 5000 up, less 10%.
A. C. PATTERSON, Centertown, Ky.

NURSERY FIELD STAKES
 Sawn out of Red Cedar, 16 ins. long. For staking plant varieties in the nursery row. Sanded and sharpened. Ready to paint and mark, 18¢ each.
SARCOXIE NURSERIES PEONY FIELDS
 Wild Rose Nursery Co.
 Sarcoxie, Mo.
STAKES, GALVANIZED HARD STEEL.
 Galvanized wire.
 Prices and samples sent upon request.
SCHUPP SUPPLY CO., Wilmette, Ill.

WATSON CONDUCTS TOUR

Dr. Donald P. Watson, associate professor of ornamental horticulture at Michigan State College, left New York on the Queen Mary, April 13, to conduct a garden tour of Holland, France, Belgium and England. He was asked by the Rhode Island Horticultural Society to be leader for 60 people who are interested in this type of horticultural education.

Dr. Watson, a graduate of the University of Toronto, in Canada, the University of London, in England, and Cornell University, is in charge of the research program in ornamental horticulture at Michigan State College.

UNDERGROUND SPRINKLER

Premier Peat Moss Corp., producer and shipper of Canadian and European peat moss, recently formed a subsidiary, Prem Products Corp., 535 Fifth avenue, New York, to manufacture and market the Easy-Dew underground sprinkler kit.

Dr. William E. Dobbins, a hydraulic engineer having much experience in irrigation work, designed this new kit. The Easy-Dew system is made with the idea of enabling anyone to have an underground sprinkler that will give professional performance at relatively low cost.

BIRCHFIELD NURSERY owned and operated by Ralph D. McGuire, Rhinelander, Wis., is celebrating its 25th year in business.

CHERRYVILLE NURSERY has planted flowering cherry trees along the west entrance of highway 150 at Cherryville, N. C., as a gift to the town, in observation of cherry tree month.

HELP WANTED

Landscape architect to head new landscape department of large midwest nursery. Must be fast and have ability to organize and supervise work of subordinates. No selling or planting supervision involved. Prefer a man between 25 and 30 years of age. Reply Box 171, care of American Nurseryman.

HELP WANTED

Retail nursery salesman needed at large Long Island garden center. Experienced, middle-aged man desired who has assistant-managerial potential. Duties involve store and salesyard sales, simple bookkeeping, stock control and possible future floral design work. Write complete details to Box 167, care of American Nurseryman.

POSITION WANTED

Experienced store manager for garden shop, florists' shop or nursery sales ground. Familiar with all phases of this business. Single, free to travel for interview. Write Box 169, care of American Nurseryman.

WANTED and FOR SALE ADS

Help and Situation Wanted and For Sale Advertisements

Display: \$4.00 per inch, each insertion.

Lines: 35¢ line; minimum order \$3.50.

HELP WANTED**EXPERIENCED NURSERYMAN**

For eastern forest tree nursery. To start around July 15 to August 1. Prefer mail-order experience. Small family. Write full qualifications. Include small photograph. Good starting salary and modern home to right man. Personal interview will be arranged later. Address replies to Box 168, care American Nurseryman.

HELP WANTED**PROPAGATORS AND NURSERYMEN**

Wonderful opportunity to own and operate your own nursery in a fine frost-free area of southern California. No land to buy or lease. This is a department store type nursery. You propagate and sell from a section of a large nursery such as shade garden, conifer planting or some section of a complete nursery. Capital to operate your section is all that is needed.

HAGEN NURSERY
385 W. Colorado Blvd.
ARCADIA, CALIF.

HELP WANTED**LANDSCAPE DESIGNER**

Young man with experience in landscape design and presentation. Must be capable of handling complete landscape projects from preliminary interview through construction, planting and servicing. Excellent opportunity for one desiring career in growing company. Write qualifications, include picture, copies of design work, marital status, military status, educational background and income desired.

D. S. KAUFFMANN & ASSOCIATES
5229 South Peoria
Tulsa, Okla.

HELP WANTED**NURSERY LANDSCAPE PLANTING FOREMAN**

Must have experience in handling men and be able to read blueprints. Permanent position.

MILLANE NURSERIES & TREE EXPERTS, INC.
CROMWELL, CONN.

FOR SALE

New Gill lawn seeder, complete with rebuilt 1949 Ford tractor. Perfect for all lawn work. \$1400 complete. Selling only because of retiring from business.

DELSEA NURSERY
Mrs. Wm. Sepers, Sr.
Newfield, N. J.

FOR SALE

The southwest's finest tree mover. All hydraulic. Fast, safe and simple. Capacity 13,000 lbs., 7½-ft. ball. Mounted on 1948 International truck, flat stake bed for double use. Also Ford tractor back hoe attachment for digging trees and holes. Complete \$3500.00.

HILL'S NURSERY
P. O. Box 45
Victoria, Tex.

FOR SALE**PFINGSTL'S NURSERY**

Well-established retail nursery growing azaleas, camellias, full line of ornamental shrubs, house and bedding-plants.

Due to death of E. J. Pfingstl, widow will sell business name, good will, stock of plants (at less than wholesale). Lease or sell approximately 3 acres of land, including 3 greenhouses, 8 large lath houses, office, buildings, equipment, etc. City bus stop at door.

Nationally known for origination of camellias Joseph Pfingstl and Emmett Pfingstl. Pfingstl's ships camellias all over U. S. Up-to-date mailing list.

This is the opportunity of a lifetime to go into business. If really interested and can invest \$10,000 or more, write for complete details.

PFINGSTL'S NURSERY

2501 Willena Ave.
Montgomery, Ala.

FOR SALE

Would you like to step into a business with over 30 years of enviable state-wide reputation? We are completely separating our wholesale from the retail department and offer a golden opportunity to a capable, young, energetic businessman to take over our landscape and cash-and-carry departments. Please do not contact us unless you are the successful type. Will lend our full cooperation to right party. Located in thriving midwest city of 100,000 population. All letters considered confidential. Write Box 170, care of American Nurseryman.

FOR SALE

A 48-year-old, 40-acre nursery with complete line of nursery stock. Includes nice selection of dwarf evergreens and shrubs. Natural supply of water for irrigation. Two houses and cold storage basement; also several other buildings. Located in southern Minnesota; twelve towns nearby. Priced to sell. Owner deceased. Address replies to Box 165, care of American Nurseryman.

FOR SALE

Second-hand greenhouses in all sizes. Greenhouse materials of every kind. Heating and construction pipe, valves, angle iron, flat iron, etc. 2500 cypress hotbed sash, 3x6 ft., 3 rows 16-in. glass, iron center brace. We buy greenhouses for wrecking.

SEABOARD GENERAL SUPPLY CO.
P. O. Box 55 Hillsdale, N. J.
Phone: WAVERLY 6-0404

FOR SALE**OR LEASE**

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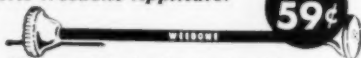
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MORE FLOWER SHOW NOTES

[Continued from page 11]

the display, as far as possible, at other shows has been asked, but any such action remains a question, according to R. P. White, executive secretary of the A. A. N.

Also at the national capital show was an exhibit staged by the agricultural marketing service of the United States Department of Agriculture, indicating the marketing research done by the government in floriculture and ornamental horticulture. Large photographs gave examples of the type of industrial firms served. Those under ornamental horticulture include photographs of fields of the D. Hill Nursery Co., Dundee, Ill.; retail nursery grounds of the Siebenthaler Co., Dayton, O.; flower seed fields of Bodger Seeds, Ltd., in California, and De Graaff's bulb fields, in Oregon.

Capital's Florida Feature

The Florida Nurserymen and Growers Association contributed an outstanding display and was awarded a bronze plaque at the national capital flower and garden show, at Washington, D. C. John Hutton, Miami, designed the display for the association and featured a large variety of Florida-grown material.

Participation in the capital garden show by the Florida group was made possible by a subsidy of \$2,000 from the Allied Florists' Association of Greater Washington, show sponsor, which had been encouraged by A. A. N. Executive Secretary R. P. White to invite the F. N. G. A. to take part.

Chairman Hutton, assisted by Gervin Pringle, Ralph Ruhl, Richard Slaton, Ralph Davis, Charles Wedding and James Griffin, gathered specimen material from over the entire state; it was accumulated at the Hutton Nurseries, Miami, and the Arvida Nursery, South Miami, under the guidance of Chairman Hutton and Ralph Ruhl. The collection of plant material was then hauled to Washington in two 32-foot semi-trailers of a F. N. G. A. member, Carl J. Lindgren Motor Transportation. The entire loading process was assisted by the parks department of Miami Beach, under the direction of John Poulus, park superintendent, another F. N. G. A. member, who made the department's big tree crane and several men available for the operation.

The finished display covered 1,640 square feet and consisted of 12 to 25-foot trees, festooned with moss and orchids, surrounding a large coral rock cliff over which a water-

New Drug Helps Nurserymen Control

ROOT ROT and DAMPING-OFF

"In December we used Sunox on 15,000 Tansu cuttings. To date we have had no loss from damping-off," reported a Pennsylvania nurseryman on February 28, 1955.

"We are very much pleased with Sunox," writes another Pennsylvania nurseryman. "Noticeable improvement was noted in texture and general appearance of foliage of Azalea Hinoerimson cuttings. Leaf drop on cuttings of Ilex cornuta rotundifolia disappeared after one application. Five times the recommended strength applied to cuttings of Ilex opaca and five varieties of taxus had no detrimental effect."

The drug that has proved so highly and uniformly effective is Sunox. College tested and field proven over a period of years, Sunox is now widely used as a standard procedure in preventing Rhizoctonia-caused diseases, including Fusarium wilt of carnations. A soil fungus, Rhizoctonia, ranks as a major agent of damping-off in seedbeds, root rot in cutting benches and brown patch in lawns and golf greens. It attacks liners in the field and mature plants and shrubs in the homeowner's garden.

Sunox costs so little — one gallon of treating solution costs only a few cents, will treat 8 sq. ft. of rooting medium (800 Azalea cuttings or as many as 10,000 seedlings). One 8-oz. package of Sunox powder (\$4.95 plus 50¢ for postage and handling) makes 160 gallons of solution, enough to treat 1280 sq. ft. approximately 20 x 60 ft.). Write for new booklet.



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fall tumbled into a pool below. The many orchid blooms were donated by F. N. G. A. members and flown to Washington by Eastern Air Lines.

Dallas Success

This year's flower show in the Garden Center at Dallas, Tex., included special features, such as a flower fashion show, a ballet and crowning of a queen, with the ever-popular exhibits of cut flowers and gardens staged by florists and nurserymen of the area and again drew record crowds before closing March 19. Rhododendrons, flown in from Oregon growers and forced in a local greenhouse, were the theme flowers at the exhibition. Viggo Larsen, staging director for the show, used these flowers in banks, with various foliage and trees, to surround a magnificent waterfall in the entrance rotunda.

North Haven Gardens fashioned a rock garden of unusual plants and used yellow chrysanthemums as the only spot of color. All specimens were marked with their common and scientific names.

The Blalock Nursery & Flower Garden made a rose garden, using the popular floribundas. Garden settings were also staged by the Allied Florists of Dallas and individual florists of the city.

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BARBERRY APPLICATIONS

Nurserymen and dealers who plan to ship barberry and mahonia stock interstate should make application for such authority by May 15, 1955, according to R. O. Bulger, leader of the barberry eradication project, Minneapolis, Minn. Current authorizations will expire September 30, 1955. Application forms will be sent to all the firms that are currently authorized to ship barberry and mahonia stock interstate. If any nurseryman or dealer whose name does not appear on the current list desires to make application, he should write to: Plant Pest Control Branch, Agricultural Research Service, 522 Metropolitan building, Minneapolis 1, Minn.

The provisions of the federal black stem rust quarantine, No. 38, require that growers and dealers who ship barberry and mahonia stock interstate must obtain the necessary authority for such shipments. Authorizations are issued only after determination is made that all barberry plants in the nursery are true to type and are of species and varieties approved for interstate shipment. Certain species and varieties of barberry and mahonia are the alternate host of the stem-rust fungus, which attacks wheat, oats, barley and rye. The nursery inspection work is part of the program to prevent the re-establishment of the barberry in the eradication states.

QUARANTINE NO. 38 CHANGE

Revision of the regulations supplemental to the black stem rust quarantine, No. 38, under part 301 of the plant pest control act 577, revised, have been announced by W. L. Popham, chief of the plant pest control branch of the United States Department of Agriculture. The new administrative instructions, which became effective April 6, 1955, supersede those given under sections 301.38-5a, in 1953, and relax the restrictions on the interstate movement of five additional species and horticultural varieties of barberry, mahoberberis and mahonia as being resistant to black stem rust.

In consequence of the revision, the following subjects may now be moved interstate in compliance with the regulations of the quarantine: Berberis lempergiana Ahrendt, B. lepidifolia Ahrendt, B. stenophylla gracilis Hort., B. thunbergi xanthocarpa Hort., and Mahonia lomarifolia Takeda. Sufficient evidence was given to the chief of the branch that the foregoing are rust-resistant, the revision states, and their movement will in-

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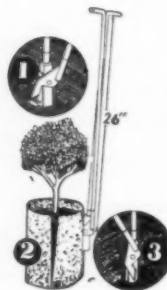
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volve no unwarranted pest risk. The list freed for movement now numbers 63 species and varieties.

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Copies of the amended regulation can be obtained from the plant pest control branch, agricultural research service, U. S. D. A., Washington, D. C.

JO BETH BROWN became the bride, April 3, of Charles Daniel Whiteside, son of Mr. and Mrs. Ed. Whiteside, Tyler, Tex. Both the groom and his father are rose growers.

DOUBLE HILLS FARMS & NURSERY, Denton, Md., was recently opened by Howard and Florence Hager. On the 83-acre nursery evergreens, azaleas and camellias will be grown for wholesale distribution. The business address of the new firm is R.F.D. No. 2, Box 20, Denton, Md.

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Meet at Washington, D. C.

Southern Shade Tree Conference

By Noel B. Wysong

The annual meeting of the Southern chapter of the National Shade Tree Conference was held April 4 to 6 at the Hotel Washington, Washington, D. C. The 2-day meeting was attended by 155 members and guests, some coming from such distant points as Texas and California.

With "Our Expanding Horizons" as the theme of the convention, speakers were drawn from the various plant research agencies located near the nation's Capitol—the U. S. forest service, the agricultural research service, the University of Maryland and George Washington University. The entire educational program was devoted to discussion of recent research accomplishments in plant pest control, each speaker being a nationally recognized authority in his field.

At the business session, held Wednesday morning, April 6, officers for the coming year were elected as follows: President, H. C. Scott, arborist, Lookout Mountain Tenn.; vice-president, Stephen Pugh, of Southern Bell Telephone & Telegraph Co., Decatur, Ga., and Secretary-treasurer, O. J. Anderson, Trees, Inc., Houston, Tex. Elected to the board of governors for a 2-year term of both the Southern chapter and the National Shade Tree Conference were Dr. Marvin E. Fowler, U. S. forest service, division of forest disease research, Washington, D. C., and Hackett C. Wilson, arborist, Shelby, N. C. Chosen for a 1-year term as alternates on the board of governors were C. A. Young, Baltimore, Md.; Marshall Sutherin, arborist, Memphis, Tenn.; John Loizeaux, arborist, Towson, Md., and O. J. Anderson, arborist, Houston, Tex.

Opening Session

The conference was opened at 11 a. m., April 4, by President Marvin Fowler. After the invocation by Rev. Dr. Edward G. Latch, pastor of the Metropolitan Memorial Methodist church, a warm welcome was extended the delegates by the Hon. Renah F. Camalier, commissioner, District of Columbia.

The first paper on the educational program was presented by James A. Beal, U. S. forest service, Washington, D. C., on the subject "Developments in Insect Control." Stating

that one of the major responsibilities of the U. S. forest service is protecting the forests against insect attacks, Dr. Beal said much of the information gained in studies of forest tree insects could also be applied to control insects that attack shade trees and ornamental shrubs. In recent years, he said, the development of DDT and similar organic insecticides provided entomologists with weapons of much greater potency than any hitherto possessed.

Insect Resistances

A great number of materials and chemical compounds with insecticidal properties have been tested, Dr. Beal said, many of which have not been developed for commercial use because of failure to meet all the essentials of a good insecticide. But in many cases the materials stood up under exhaustive tests, he pointed out, and this has resulted in the development and wide-scale use of such

insecticides as DDT, chlordane, methoxychlor, BHC and others.

Entomologists are disturbed, he said, about the resistance that some insect species are developing toward some of the new organic insecticides. In a number of instances, strains of flies have developed resistance to DDT; there is evidence of increasing resistance among certain insects even to such potent materials as parathion, Dr. Beal said. This development of resistance to formerly effective insecticides is different from the resistance of certain insects to specific insecticides; for example, DDT has never been effective against red spider mites.

Entomologists and chemists are always seeking insecticides that are both effective and safe; in this connection Dr. Beal mentioned malathion as being one of the newer materials that is effective against many species of insects, remains toxic over a long period after application and



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is relatively safe to handle and use.

Relative to the development of equipment for applying insecticides, Dr. Beal mentioned the mist blower and the helicopter. The mist blower, he said, has possibilities of wide use in the application of insecticides, fungicides, hormones as growth regulators and herbicides. A new nozzle has been developed, he said, which may result in improved operation. The helicopter, Dr. Beal commented, appears to be better for use in treating insect-infested shade and park trees than for spraying large forest areas.

Touching briefly on tree diseases, Dr. Beal said that methoxychlor appears to be as effective as DDT in control of the elm bark beetle, carrier of the Dutch elm disease. The use of methoxychlor may result in less kill of beneficial insects and may eliminate the build-up of spider mites which so frequently follows the use of DDT sprays. Several species of insects are thought to be carriers of the oak wilt disease, Dr. Beal said, but it still has not been determined definitely that such is the case.

Newer Controls

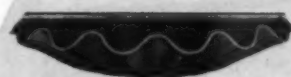
Progress is continuing in the use of systemic poisons and biological control methods, Dr. Beal stated. He defined systemics as those materials which may be taken up by the plant and translocated throughout its parts, without injuring the plant itself, but acting as a poison to insects that feed on the plant. He said encouraging results had been obtained through soil applications of lindane, parathion and others and that experiments are being continued.

Among insects for which biological controls are being attempted, Dr. Beal mentioned the elm leaf beetle, the pine sawfly, the southern pine-bark beetle and the screwworm. Increasing use of radio-active materials is being found both in actual control of insects and in tracing their flight ranges and other activities during their life cycle, Dr. Beal said.

Howard S. Potter, National Shade Tree Conference research student enrolled at the University of Maryland, College Park, reported progress made to date in his studies on the Dutch elm disease in his paper, "Systemic Fungicides for Dutch Elm Disease." The various compounds tested, he explained, were applied to the roots of young elm trees grown in the greenhouse. The trees, he said, were planted in earthen pots filled with gravel, sphagnum and coarse sand, with nutrient solutions being applied by hand in some cases and



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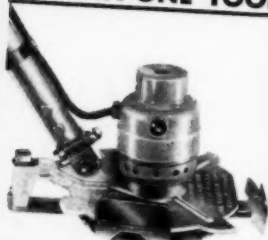


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in others by apparatus operating automatically.

Chemical solutions being used include calcium nitrate, ammonium sulfate, potassium phosphate, potassium sulfate, potassium chloride, magnesium sulfate, ferrous sulfate, boric acid, copper sulfate, zinc sulfate and sulfuric acid. Materials that have been under tests for toxicity to the causal fungus of the Dutch elm disease, *Ceratostomella ulmi*, include OAB, HD-109, HD-160, AC-12046, Puratized, Vancide and nebam and the antibiotics actidione, agrimycin and streptomycin.

It has been found, Mr. Potter said, that some of the chemical compounds are toxic to the fungus in cultures at low concentrations, while with others much higher concentrations are required. Most of the fungicidal materials tended to reduce the growth rate of the trees and some killed the elms when used in concentrations higher than that of 1:4000. Leaf damage, due to the toxic effect of the compounds rather than the disease, was observed in some cases. In young trees inoculated with the disease, use of some of the fungicidal materials considerably reduced symptom expression both in the leaves and in the branch wood, Mr. Potter said.

Oak Wilt

In his paper, "A National Look at Oak Wilt," George H. Hepting, U. S. forest service, Asheville, N. C., traced the history of the disease from its discovery and identification of the causal fungus in Wisconsin in the early 1940's to its present status. He told of the research work aimed at control of the disease that had been done and is in progress at the various state research agencies and by the United States Department of Agriculture and credited the contributions made by the oak products industries through the national oak research committee as materially aiding the research program.

Through intensive research both in the laboratory and in the field, Dr. Hepting said, many facts about the oak wilt disease have been learned in a comparatively short period. Based on this knowledge, measures calculated to check the spread of the disease include the following: 1—Isolate infected oaks by trenching or poisoning adjacent oaks in order to prevent spread of the disease through natural root grafts. 2—Remove and destroy infected trees. 3—Avoid wounding of oaks and paint such wounds as may occur, particularly in the spring of the year, since the period of April through June appears

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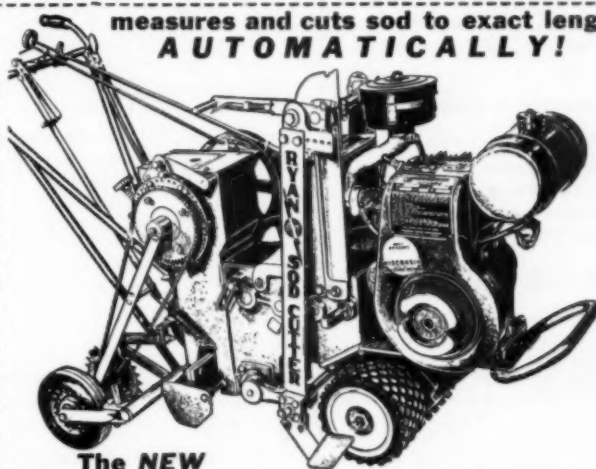
to be the time when overland transmission is most likely to occur. 4—If logs from infected oaks are saved for future use, remove the bark to prevent the formation of fungus mats from which the disease may be spread or spray thoroughly with BHC.

Spread of Oak Wilt

In discussing the overland spread of oak wilt, Dr. Hepting said that several kinds of insects and squirrels are suspected of serving as carriers of the disease through feeding on the fungus mats and transmitting the spores to healthy trees visited later. The spores, he said, may be carried either externally or internally by certain species of sap-feeding insects; these same insects also feed on fungus mats, and this combination makes such insects prime suspects as carriers of the oak wilt disease.

Oak wilt is still a threat not to be taken lightly, Dr. Hepting emphasized, and added that in most of the states where it is known to exist control measures are in operation and increasing in scope. Responsibility for control, he said, rests with state agencies and private owners of forest lands, rather than with the federal government. Control is economically feasible, he asserted, when measures

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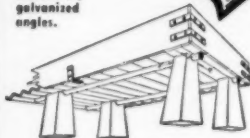
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are instituted before the disease becomes widespread in an area.

Sweetgum Blight

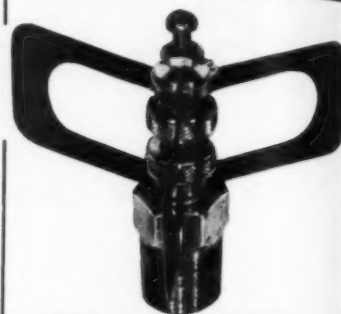
One of the newer shade and forest tree diseases, the cause of which has not yet been determined, was discussed by Fred H. Berry, of the agricultural research service, Beltsville, Md., in his paper, "Status of the Sweetgum Blight." Explaining that leader die-back of sweetgum had been present in southern forests for many years, but that sweetgum blight, as such, is of more recent origin, Dr. Berry said that both types of trouble might be caused by the same disease, and that in his discussion he was assuming such to be the case. Blight, he said, is found in trees growing in both good and poor soils, but the damage seems to be greatest in trees on poor sites.

Using color picture slides to illustrate his comments, Dr. Berry said symptoms of the disease include small leaves, discoloration of foliage and premature leaf-drop, branch die-back advancing from the tips inward, and brown discoloration in the sapwood, but following no regular pattern of streaking. The first symptoms usually appear about midsummer, and an infected tree may die the first year after infection or may live several years, gradually becoming stag-headed.

Indicative of the seriousness of the disease in areas where it becomes well-established, Dr. Berry cited College Park, Md., where, he said, 75 per cent of the sweetgums that were healthy in 1948 are now dead from the effects of the blight.

The cause of the disease is not known, Dr. Berry stated. Nematodes have been suspected as a factor in the problem, but proof of their responsibility is still lacking. No fungi that appear to be responsible have been isolated from diseased specimens. Since action of the disease resembles that of virus-caused ailments, Dr. Berry said, patch bark grafting experiments were begun in 1953, but have produced no results to date.

In attempting to arrest progress of the disease in individual trees, fertilizer applications have been made, but have not been effective. Pruning infected branches has also failed to halt spread of the disease. Identification of the cause of the disease and development of methods of control constitute one of the more difficult problems in which plant scientists are working, Dr. Berry said. In the light of present conditions, he suggested that maximum utilization of sweetgum timber in forests where



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the disease is present might be desirable.

Antibiotics

In his discussion of "Antibiotics for Plant Disease Control," John C. Dunegan of the agricultural research service said that nearly all work done to date in the use of antibiotics against plant diseases involved fruit trees, but undoubtedly many of the control principles are applicable to shade and ornamental trees. After the discovery of penicillin, plant pathologists began experimenting with antibiotics to control various plant diseases, Dr. Dunegan said.

Fire blight was one of the first diseases on which antibiotics were tested and it was found that streptomycin and, later, a combination of streptomycin and terramycin, produced good results. Tests conducted to date, he said, indicate that a combination of streptomycin and terramycin in a concentration of 30 parts per million, used in a 5-spray schedule at intervals of seven days, gives good control of the disease. Practically perfect control was obtained, he remarked, when the concentration was increased to 60 ppm and 100 ppm. Other diseases on which good control results have been obtained with antibiotics include walnut blight and bacterial spot disease of peach. A commercial product, actidione, has given good control of cherry leaf spot disease and has been found to inhibit spore formation in one of the stages of cedar apple rust, Dr. Dunegan said.

In addition to results obtained in spray applications, Dr. Dunegan said antibiotics have shown some promise when injected into trunks of diseased trees, when applied to the trunks in paste form and when used in solutions into which stock is dipped. He emphasized that good results have been obtained only when the antibiotic materials were used as protectants; they had not been found to be effective as curative agents. Soil applications of antibiotics, he said, have not been effective generally in controlling diseases.

In commenting on the costs of antibiotics, Dr. Dunegan expressed hope that prices of the materials would soon be low enough to permit more extensive use and said that the present trend of prices is downward. Experiments with antibiotics alone and in combination with several of the heavy metals, particularly copper, are continuing, he said, and added, "The discovery of antibiotics started a new era in plant disease control; eventually antibiotic sprays



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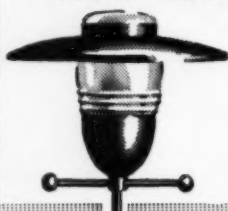
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Mycorrhizae

"Mycorrhizae in Relation to Tree Nutrition" was the subject of a technical paper and a series of color slides presented by Edward Haskaylo, of the agricultural research service, and John Palmer, of George Washington University, Washington, D. C. Mycorrhizae, or certain species of fungi living in close association with the roots of growing plants, are of importance in soils. Dr. Haskaylo stated, since many act as aids in plant growth. Some appear to serve as a means of breaking down raw plant food so it can be absorbed by the roots; in some cases the threads of the fungi penetrate plant roots and serve as food for the plants, while in others the fungi absorb nutrients and translocate them to the roots. Not all mycorrhizae are beneficial to plant growth, he said, since some penetrate into the cells and actually kill plant roots.

Much more study is needed to determine the exact relationship between mycorrhizae and living plants, he said, but added it is known that tree growth is best when mycorrhizae are present in the soil. By introducing well-established mycorrhizae associations into soils tree growth has been noticeably improved, he asserted; similar successful experiments have been conducted in nurseries.

Prospects for Systemics

"Systemics first made news headlines under the caption 'Plant Bites Bugs' some years ago," commented Floyd F. Smith, of the agricultural research service, in the introduction of his paper on "The Prospects for Systemic Insecticides." Systemic insecticides Dr. Smith defined as being insecticidal materials that are absorbed by the plant and translocated to all its parts and as being capable of killing insects that feed thereon without being injurious to the plant itself. The material may be absorbed by roots, bulbs, seeds, bark or foliage.

Selenium, the first systemic insecticide known, was developed in the 1930's and used successfully in greenhouses to control red spiders, cyclamen mite and similar pests. It is highly toxic to humans, Dr. Smith warned, and cannot be used on food plants, since it is retained within the plant, including the edible portions. There is no known antidote, he said.

A considerable number of systemic insecticides have been developed in

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recent years, including Systox, Pestox Schradan and others. Relative to the uses, effectiveness and hazards of these materials, Dr. Smith warned that the manufacturer's directions, found on the container, should be read carefully and followed to the letter.

Systemic insecticides are still a new field of study, Dr. Smith pointed out, and much yet remains to be learned about their action in the plants and their full value in control of insects. Through the use of radioactive particles it has been possible to trace the movement of systemic insecticides within the plant, he said; in roses, for example, the materials move upward readily, but not downward from the point of application. There is considerable variation in the quantities of the materials retained in different parts of a treated plant; in beans, about four times as much is retained in the seeds as in the tissues of the pod; in tomatoes, the concentration is much greater in the seeds than in the edible meat; applied to the foliage of citrus, only about 1 per cent moves out of the leaves.

It is becoming a practice of some florists, Dr. Smith said, to soak lily bulbs in a solution of systemic insecticidal material before planting;



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this treatment remains: effective about eight months. With some other plants, the period of effectiveness after application is as short as one month. When the materials are applied to leaves, from 50 to 95 per cent penetrates the leaf tissue within 24 hours, absorption being most rapid in the spring and decreasing with the advance of summer and fall. Most systemic insecticides may be used in combination with other insecticides and acaricides, Dr. Smith said.

Chemical Weed Killers

"Using Chemicals in Clearing Right-of-Ways" was the title of a paper presented by Warren C. Shaw, of the agricultural research service. Using a series of color slides to illustrate his discussion, Dr. Shaw traced the extended experimentation and testing to which an herbicidal chemical is subjected before it is released for consumer use. The slides included many scenes located in the laboratories and the experimental field plots. The series of slides also included views of undesirable vegetation to which herbicides had been applied and of various pieces of equipment, from hand sprayers to airplanes, used today in application of the materials.

Apologizing for the context of his presentation to "men who are interested in growing trees, rather than killing them," Dr. Shaw said that any vegetation—trees or other plants—that is growing where it is not wanted must be considered weeds and should be treated accordingly. Herbicidal chemicals, he pointed out, offer the most effective and most labor-saving method of eliminating weeds known today. Such materials may be applied as foliage sprays, trunk sprays or paints, pre-emergence sprays to control annuals and as soil sterilants.

When applied to growing parts of a plant, some of these chemicals act as a caustic and kill through contact, but in most cases they are absorbed into the plant, where they are translocated to all its parts and kill through internal action. Some inhibit the formation of chlorophyll, thus preventing the formation of food and causing the plant literally to starve to death, Dr. Shaw said. Many of the compounds are not toxic in themselves, he added, but when absorbed they may change the chemical constituents of the plant until it becomes toxic to animals that feed thereon. Hence, he warned, livestock should not be permitted to graze on treated vegetation.

The trend of present experimental

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Dr.

work on herbicides, Dr. Shaw said, is toward materials that are more selective in action—that will kill certain species of vegetation without injuring other plants. Promising results have been obtained in these experiments, he said, and added that the day of the kill-all herbicides seemed to be about past. "To do the most desirable kind of weed control work now," he said, "the operator must know plants and the particular species to be controlled, and choose the herbicide accordingly."

Richard E. McArdle, chief forester of the U. S. forest service, delivered an interesting and inspirational address after the annual banquet. Using nontechnical terms throughout, Dr. McArdle described the life processes of trees and their economic and aesthetic values. He told briefly of the many new products that are being developed from wood and the everyday uses to which they are being put. He commented favorably on the work being done by arborists and cited the advances and scientific achievements that have been made in arboriculture, forestry and related fields.

Commercial Displays

Contributing to the success of the conference were the displays of supplies, power tools and truck-mounted equipment sponsored by manufacturers and dealers and the excellent educational exhibit attractively arranged on a platform extending along two sides of the meeting room. Included in the commercial exhibit were power saws, wood-chipping units, sprayers, truck-mounted aerial ladders, pruning equipment, fertilizers, herbicides, saw scabbards and similar items used by arborists.

The educational exhibit included [Concluded on page 76]

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a display table holding U.S.D.A. pamphlets and bulletins pertaining to arboriculture, actual specimens of mycorrhizae, which could be viewed through a mounted lens; wood specimens and wood-decaying fungi, pictures of trees infected with the sweet-gum blight, Dutch elm disease and oak wilt, and photographs of tree injuries caused by various insects.

One of the highlights of the meeting was the field trip made to the National Arboretum, the U. S. plant introduction garden at Glenn Dale and the agricultural research center at Beltsville. At each of the three areas, items of interest were pointed out to the conference delegates by specialists. The trip was concluded with an extensive tour of the laboratories and greenhouses of the agricultural research center, during which were exhibited plants of many kinds undergoing various tests calculated to result in general improvement of the species.

JOHN J. B. LIGHT, Light's Tree Co., Richland, Mich., was guest lecturer March 10 at the second of a spring series of garden forums sponsored by the Grand Rapids Association of Nurserymen, in Grand Rapids. Mr. Light's topic was "Selection, Planting and Care of Shade and Ornamental Trees" which he illustrated with picture slides.

OFFICERS of the Ornamental Growers Association of Northern Illinois elected for 1955 are: President, Myron C. Smith, Maywood Nursery Co., Maywood; vice-president, Edward P. Eickhof, Eickhof Nursery, Bensenville; treasurer, Roger Leesley, Leesley's Nursery, Libertyville, and secretary, William B. Hagen, Golf Nursery, Northbrook, re-elected.

FIRST regularly scheduled television garden show in New England, "Gardening with Gallagher," had its initial appearance March 5 over station WKNB-TV, channel 30, at West Hartford, Conn. The show, sponsored by the Barnes Bros. Nursery Co., Yalesville, Conn., the Rogers & Hubbard Co., manufacturers of fertilizers, and Michigan Peat, Inc., features John S. Gallagher, horticultural advisor for the Barnes firm. The program includes demonstrations of good horticultural practices, with material displays and quick sketches. Ornamental gardening and home beautification are emphasized. Special horticultural guests occasionally appear on the program to discuss their specific interests in gardening.

TED TETIRICK, Tetirick Nursery, Ponca City, Okla., was guest speaker March 21, at a meeting of the Ponca City Rotary Club. Mr. Tetirick discussed the problems of growing garden plants, shrubs and trees in the Ponca City vicinity.

GERALD V. S. RAYNOR, for the past nine years a faculty member of the school of horticulture, Long Island Agricultural and Technical Institute, Farmingdale, N. Y., has resigned his teaching position to devote full time to his nursery business at Huntington. Additional land has been obtained for spring planting, and he will continue his landscape consultation and plan preparation service.

CLARENCE S. FAUNCE, Havana-Look Gardens, Fowlerville, Mich., was guest speaker March 21 at a meeting of the Muskegon Garden Club, Muskegon, Mich. Mr. Faunce spoke on "Flowering Shrubs and Flower Arranging Materials," elaborating on the types of shrubbery best adapted to Michigan climate and soil. He obtains much of his unusual decorative material from foreign countries, including France, Belgium and England.

MRS. KATHLEEN DANIELSON, Danielson's Nursery, Long Beach, Miss., was guest lecturer March 15 at the annual spring open meeting of the Men's Garden Club, Mobile, Ala. Mrs. Danielson gave an illustrated talk on the planting and growing of hibiscus, using a large specimen bush which she covered with 70 varieties of the bloom for illustration. Mrs. Danielson also had a table display of the blooms dipped in wax and an arrangement of the flowers. Sixty garden clubs were invited to attend the lecture.

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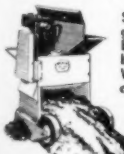
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WELLS ON PROPAGATION Production Procedures: A Review

[Continued from page 14]

operations. The correct timing of the operation and the method of taking the cutting are directed to the production of this good root system.

There are, however, other operations which we can and should apply at this time to enhance still further the quality of the root system eventually produced. I refer to the two methods which have been discussed here many times; namely, the wounding of the base of the cutting and the treating of the cutting with a root-inducing substance or hormone. Both operations add to the cost of production. Both require more work and tend to slow down the daily production of cuttings. Yet both are, in my opinion, highly desirable on many cuttings and quite essential on some to produce the kind of root system that we really need.

It is this kind of work which I earnestly suggest is not a liability, but is, in fact, a very real asset. Wounding can take two forms, the application of a light wound by the cutting of the outer tissues of the stem with a single blade, or a heavy wound produced by removing a thin strip of the outer bark with the tip of a sharp knife. The light type of wound can best be applied by the Gem razor blade wounder described in earlier articles, whereas the heavy wound can be applied with a good sharp grafting or cutting knife by the operator as the cuttings are made.

The application of wounds to different kinds of cuttings varies in importance with the plant in question, and here is one of the variable factors in the production of plants which the good propagator must learn from experience. Referring to the three illustrative plants mentioned above, I have found that wounding is quite unnecessary on all varieties of taxus. They seem to root with equal speed and vigor whether they are wounded or not, and except only on varieties which root reluctantly, such as Taxus repandens and one or two similar varieties, wounding appears to be quite unnecessary. Conversely on the other two plants wounding is highly beneficial. On practically all varieties of junipers, wounding is almost essential to the production of a really good vigorous root system. It is also highly beneficial on the magnolias, and here with the stem being thicker, a heavy wound can be applied with advantage. On the light-stemmed cuttings of junipers, a light wound is all that is needed. Wounding is also bene-

ficial on ilex of almost all kinds and many other plants.

The difference in the type of root system which is produced through wounding is quite astonishing to the grower who has never practiced wounding in the past. Pfister juniper is an excellent example of this. All of us have undoubtedly seen cuttings of Pfister juniper taken in the ordinary manner and inserted in the bench, which eventually have produced one or two long straggly roots from a tough knobby base of callus. We trim these long roots back at the time of potting and hope that they will branch out and eventually produce a good root system, but so often this is not the case, and the original lack of a well-balanced root system follows this plant right through its various stages of production until finally it is dug as a B&B plant in the field. Then, in many instances the ball falls apart or it presents a serious problem to the digger which slows down his speed of digging and thereby increases costs. The lack of a good root system on a cutting has incalculable effects upon all subsequent operations.

Hormone Treatments

Wounding goes hand in hand with hormone treatments, and the two treatments for a cutting are to a certain extent interdependent one with the other. Both, however, have definite effects of their own, and excellent illustrations are available to show the effects of wounding and hormone treatments and finally the combined effect of them both. In general, the combined effect of wounding and hormone treatments is the best that can be had, and an excellent root system can be produced on many a stubborn plant by the careful application of a wound and the immediate treatment of the cutting with the correct strength of hormone. The combined effect of wounding and hormone treatments, therefore, is to produce a really vigorous and well-balanced root system, which is in every way adequate and which will obviously continue to develop into a fine root system in the finished plant.

Additional Aids to Rooting

While we have been considering the application of wounding and hormone treatments to the production of well-rooted cuttings, there are other aids to successful rooting which must not be overlooked—the production of certain types of cuttings on established stock blocks; the application of misting both indoors and outdoors to enable cuttings

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to be taken earlier in the season, at which time some items root more readily, the application of bottom heat to the propagation benches, and the use of various media. All these are methods which have to be considered by the propagator and used where it would seem desirable to do so. All require a certain amount of expenditure of time, effort and money, and all are justified in certain instances. The whole set of aids to propagation adds up to a series of time and money-consuming procedures, a proportion of which are highly justified in almost all cases, and which in some instances, are essential in their entirety for first-class results.

Handling the Rooted Cutting

Let us suppose that we have now rooted a good batch of cuttings with the kind of root system that we set out to produce, a vigorous well branched root system containing numerous roots well spaced around the base of the cutting, yet showing no obvious signs of abnormality due to excessive hormone treatment or other causes. How can we best handle the cutting from this point onward? There are so many possibilities here that the situation tends to become confused, particularly if we have an opportunity to talk to growers in various parts of the country and see just how many different methods are being used successfully by growers everywhere. I shall briefly mention some of them and then run through what I believe to be the optimum method.

First, if we are considering cuttings which have been rooted slowly either in the greenhouse bench or in frames over an extended period of 12 to 15 months, these cuttings, having a well established and hardened up root system, can usually be transferred direct from the propagation bench to the open field without undue loss. Vincent Bailey, of the Bailey Nurseries, St. Paul, Minn., is carrying out this procedure with obvious success. He has two conditions which I think add greatly to the steadily good results he reports. They are (1) an excellent soil condition and (2) irrigation facilities. Mr. Bailey spends a great deal of time, thought, effort and money in preparing his land for planting. Large quantities of manure are available to him and, in addition, he rests his land for three or four years and thus insures that he has an excellent tilth. The first-class soil condition both in terms of friability and fertility which is produced in this way is no small factor in the success with which he

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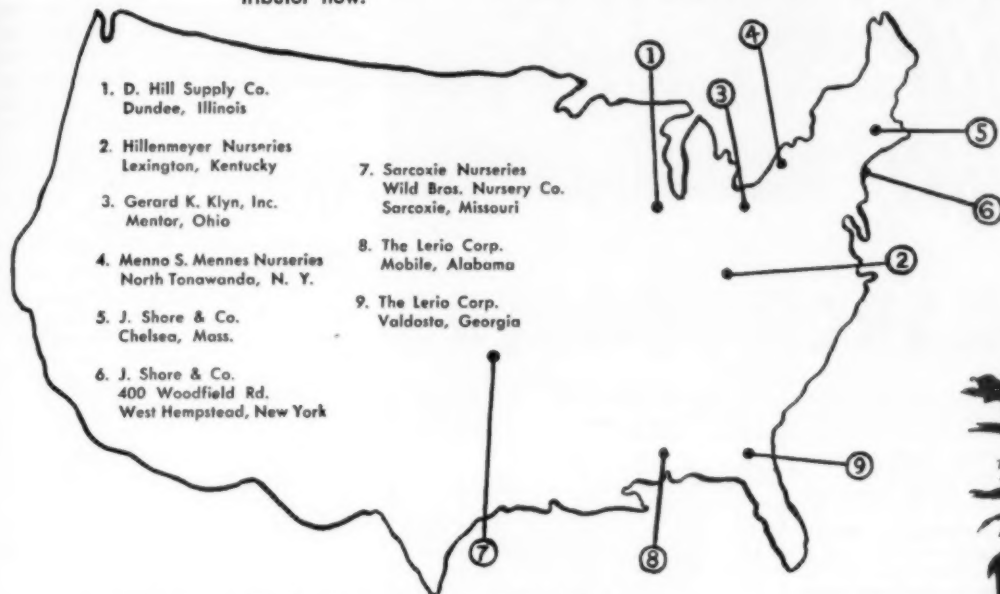
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transplants rooted cuttings from greenhouse bench directly to the open field. Irrigation, of course, is an absolute must for this type of handling, and therefore I would say that if you have well-rooted cuttings with an established root system, soil in excellent condition, plus adequate supplies of water, you would be justified in trying the direct field planting of rooted cuttings. If any one of these factors is missing, I should drop back on more conservative, but perhaps more certain methods.

Here at Dundee our soil is on the heavy side and opens up rather late in the spring. It is difficult to bring it to a really good friable tilth, and no matter how carefully we may prepare the land we should not consider the final results to be ideal for the planting of bare-root plants. This has been proven by losses which we have sustained in the past, and we have therefore changed our methods of production to allow the establishment of all our rooted cuttings into plant bands or pots.

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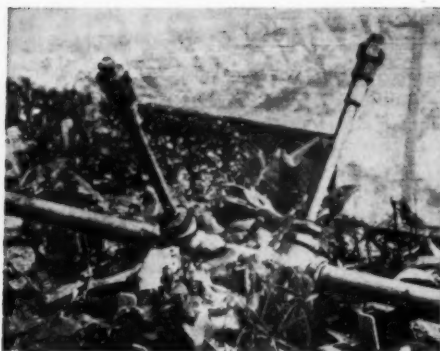


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potting bench and subsequently in the plunging beds. There are a number of excellent bands on the market, but we prefer a wood veneer band to the composition tar-paper type of band. Our reason for this is that most of the plants which we are growing require two full growing seasons in the band to obtain the maximum value from this operation. If our rooted cuttings are inserted in the greenhouses, say from November to February, they will be well rooted and ready for banding by the end of April or early May. The cuttings will be rather small because we require large quantities, and this means that the cuttings will be inserted in the bands sometime during the months of May or June. They will make good root action through the summer, but not too much top growth. By the end of the first year, they will be well established in the band and be ready to make good growth the second year. Using suitable top dressing and feeding, we have proved that substantial growth and development of the liner can be expected the second year, and at the end of that time, we will have produced as large a plant as possible in the soil and space available. We therefore want a band that will last for those two growing seasons, and in order to insure that the wood veneer band will last for that time, we have to protect it with a wood preservative.

Because we have to do this, there is no obvious advantage in using a cedar band, which is moderately rot-resistant. We do not believe that it would be sufficiently rot-resistant to grow for two full seasons in the open beds, but we do know that if we take the ordinary white wood veneer band of the type shown and treat it with copper naphthenate, we can expect the band and the tray in which the bands are held to resist rotting and to come up at the end of the second growing season virtually in the same condition that they were at the beginning. This treatment of the wood bands is an important part of our operations, and we have gone into the matter quite thoroughly to insure that the treatment is harmless to the plants and adequate for the protection of the bands.

We purchase an 8 per cent copper naphthenate concentrate from the manufacturers, and we dilute this with heavy naphtha solvent. This is the cheapest type of industrial solvent that is available for the dilution of the copper naphthenate, and it costs about 18 cents per gallon if purchased in quantity. Ordinary Stoddard solvent is equally

satisfactory and can usually be obtained from a local gasoline dealer, but the cost is usually about 22 cents per gallon. We mix nine gallons of the solvent to one gallon of the concentrate to produce a concentration of eight tenths of one per cent. This mixture costs us just about 50 cents per gallon.

We mix large quantities of it, and the bands and the trays are dipped in the crates as they come from the factory. This greatly speeds the process of dipping, and we then allow the bands to dry before they are set up for potting. We have recently changed from the standard 12-unit tray to a 25-unit tray, which we believe will still further speed up our potting and plunging processes and which will eventually produce a standard shipping unit so that we can ship four of these trays for an order of 100 lining-out plants. We are devising a carton into which two of these 25-unit trays can be slipped complete with the plants in the bands, and this should greatly facilitate shipping processes when we finally come through with a block produced in this way. I see absolutely nothing wrong with this wood veneer band, and for the production of young lining-out plants, whether they be for shipping, for lining-out sales or for planting, they seem to me to be ideal.

Well rooted cuttings are lifted from the propagation benches, potted into these bands by women, and the bands are transferred to plunging beds, where they are placed upon a thin layer of sand to insure adequate drainage beneath. A light dusting of sand is placed on top of the bands, just to fill in any cracks which may exist between the individual squares. The sides of the trays that are open at the edge of the beds are banked with sand also to prevent evaporation, and the bed is then covered with lath shades. Under these carefully controlled and protected conditions, we find that the young lining-out plants make excellent growth. The methods used to obtain maximum development of these plants during the two subsequent growing seasons will be considered in the July 1 issue.

GARDNER-FINDLEY NURSERIES were recently opened at McDonough, Ga., by Robert H. Gardner and Hugh Findley. The nursery will specialize in pasture and lawn grasses and will grow Bermuda and zoysia grasses. A greenhouse is planned in the future. The nursery's business address is R.F.D. No. 2, Box 171A, McDonough, Ga.



Raking stones, roots and brush
Material is discharged in a windrow where rake quickly gathers it into piles.



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Rake is backed up to pile in high lift position, lowered into it and drawn away. Each bite takes away a large portion of the pile. Soil is spread rapidly and evenly.

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BOOK REVIEWS

FIFTY COLOR PRINTS

Anyone who understands the problems of color photography or finds pleasure in the growing things in the spring woods or has true appreciation of the artistic will admire the 50 full-color prints which are included in the brown covers of the book, of 12 $\frac{3}{8}$ x16 $\frac{3}{8}$ -inch page size, "Woodland Portraits," by Jeanette Klute, published, boxed, at \$20, by Little, Brown & Co.

These are quiet studies of wild flowers by one of the top experts in the research department of the Eastman Kodak Co.

Brief notes identify the plants for the horticulturally minded, while data on the conditions existing on exposure inform the expert photographer.

KNACK OF GREEN THUMBS

The problems of the amateur gardener and home landscape planner vary less in type than in detail the world around. Therefore the reader of such a book as "Green Thumbs," by Roscoe A. Fillmore, directed to Canadian home makers and gardeners, frequently discovers topics familiar this side of the northern border as well. Because the opinions expressed are those of a practical and practiced nurseryman, there should be special interest in the recommendations of the author.

In general, the book, which was published in 1953 by the Ryerson Press, is designed to assist the owner of a moderate-priced home—in the \$5,000 to \$10,000 bracket. It is also especially planned for the beginning home maker. These aims are carried out through an interesting technique of relating the con-

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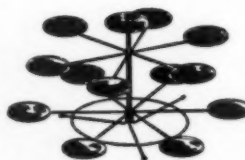
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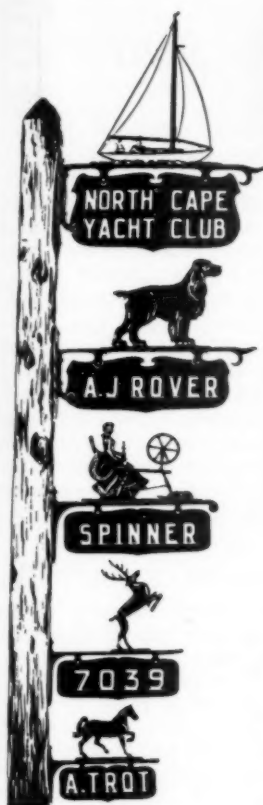
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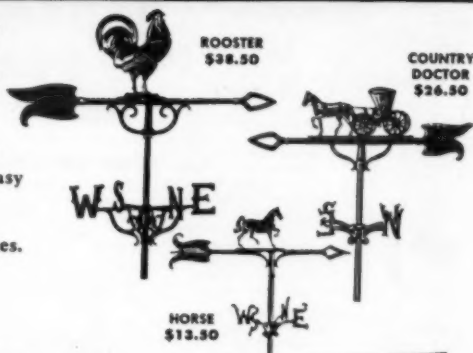
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secutive planting suggestions to one simple property plan, the program running from the initial grading work through all the various later plantings of lawn, foundation, borders and trees, as well as propagation, maintenance and walk construction. Major plant groups are discussed in individual chapters.

The text is regularly pointed up with topical subheads that quickly direct attention to paragraph themes, carrying out the writer's efforts to accent his comments on matters which he says have been the subject of questions to him thousands of times.

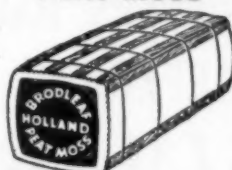
Mr. Fillmore is the retired head gardener of the Dominion Atlantic railway and the Grand Pre memorial park. He is a member of a nursery family and grew up in nursery surroundings, working with his father, John Willard Fillmore, in the business first operated as the Tingley Nurseries, later as the Albert Nurseries and then Fillmore Bros., at Albert, N. B. This firm was established in 1860 by a great, great uncle of the author, A. Green Tingley. The writer has also worked on nurseries in New York state, on farms in Manitoba and Saskatchewan and in British Columbia. In 1913 he became superintendent of

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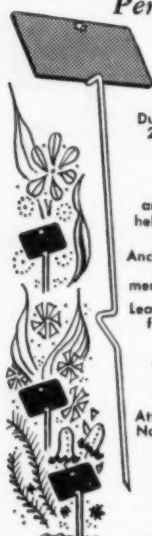
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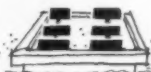
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the largest commercial orchard in New Brunswick, at Burton, and ten years later was agronomist on a large state farm at Kemorovo, Central Siberia. Returning to Canada in 1924 he established Fillmore's Valley Nurseries, Ltd., at Centreville, N. S., in association with a son, Frank H. Fillmore. His older son, Richard Fillmore, was propagator at the Arnold Arboretum and is now with the Siebenthaler Co., Dayton, O.

"Green Thumbs" is somewhat the outgrowth of experience in satisfying inquiries resulting from a company radio program broadcast. It is written with enthusiasm, but simply and nontechnically, illustrated with both drawings and reproductions of photographs. The book, of 385 pages, selling at \$4, is said to have been well received in Canada.

SCIENCE AND GLASSHOUSE

To bring together the result of research work with regard to greenhouse operations at John Innes Horticultural Institution, the head of its garden department, W. J. C. Lawrence, in 1948 wrote "Science and the Glasshouse," a 175-page book published at 15 shillings by Oliver I. Boyd, Edinburgh and London, and later issued in a second and revised edition.

The author's book with J. Newell, on "Seed and Potting Composts," is well known to many growers in this country.

In "Science and the Glasshouse," the John Innes seed and potting composts are outlined in the first part. In the second the methods of using the composts and of handling plants are discussed. The third part deals with the structure of greenhouses, as to shape, site and materials.

From this book the commercial grower can derive the benefit of the careful research and experimentation carried on at the famous English institution. Some of the deductions are surprising in their variance from popular tradition.

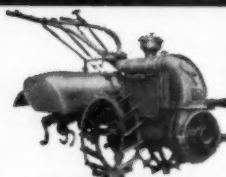
WHY PICK ON ME?

Those who have enjoyed the humorous plant fables or tales of A. Godunov, whom we suspect to be Albert Glass, owner of the Altavista Nurseries, will be pleased to learn of the publication of a little book of 32 pages and stiff paper cover, with many amusing sketches, entitled "Why Pick on Me?" price 50 cents, from Poplar Press, Box 232, Altavista, Va.

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Letters from Readers

STOCK COSTS

I have been reading the editorial page in the issue of March 15, 1955. For the first time (true, I have not been around the trade too long), I find an editorial that rouses me to the point of writing you. I am sure that this effort will bring no earth-shattering results, but I must put forth this point.

Regarding our "Common Failing," an editorial in the issue: I am of the firm belief that the crux of the matter lies in the fact that we (nurserymen in general) have little or no idea of what our stock costs to produce. Therefore, how can we argue about costs at which we sell.

If a man has no idea of what the product costs him, he surely is reluctant to raise his prices. In some cases he might even lower them.

We are in business to make a profit and are surely unable to do that consistently unless we know our costs. If the cost of any single item is known, then we will add our legitimate profit and arrive at a fair selling price.

There are two basic rights involved. The right of the seller to a fair profit and the right of the buyer to a fair price. This does not, however, mean two prices. They are one and the same, and unless we know what the item costs, probably one of the rights will be violated.

I think that one of the greatest services one can do for the trade is to plug the idea of cost accounting of some usable sort until such a system is in general use. I have been working on our situation here, and the task will not be easy.

Wade T. Kumlien

PRICES AND CONTACTS

The editorial page is always well digested by all concerned in this office, but we seldom take time to tell you so.

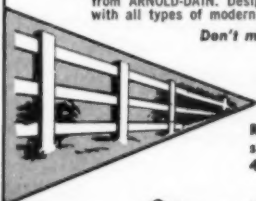
Two of the articles in the March 15 issue are particularly interesting to us. One is "Common Failing." We have always had a reputation in our sales territory of being at least 25 per cent higher in price than the average of our competition, much to the wonderment of many of our competitors. It is a long story, but summarizing it, we might say that it is, in our opinion, simply a question of offering nothing but top-quality stock and giving the best possible service. High prices are then easier

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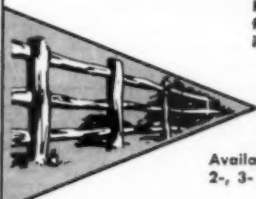
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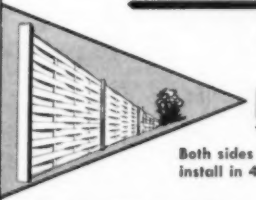
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Size 0	Top . . . 4 ins. Bottom 3 1/2 ins. High . . . 4 ins.
Weight per 100	Regular 10 lbs. Heavy 25
100 . . . \$2.75	1000 . . . \$25.00
100 . . . \$3.75	1000 . . . \$35.00

Size 1	Top . . . 6 ins. Bottom . . . 5 ins. High . . . 6 ins.
Weight per 100	Regular 15 lbs. Heavy 35
100 . . . \$4.00	1000 . . . \$37.50
100 . . . \$5.25	1000 . . . \$50.00

Size 2	Top . . . 7 ins. Bottom 5 1/2 ins. High . . . 9 ins.
Weight per 100	Regular 24 lbs. Heavy 55
100 . . . \$4.50	1000 . . . \$42.50
100 . . . \$5.75	1000 . . . \$55.00

Size 3	Top . . . 8 1/2 ins. Bottom 6 1/2 ins. High . . . 9 ins.
Weight per 100	Regular 30 lbs. Heavy 70
100 . . . \$5.00	1000 . . . \$47.50
100 . . . \$6.25	1000 . . . \$60.00

Size 4	Top . . . 8 1/2 ins. Bottom 7 1/2 ins. High . . . 5 ins.
Weight per 100	Regular 30 lbs. Heavy 70
100 . . . \$5.00	1000 . . . \$47.50
100 . . . \$6.25	1000 . . . \$60.00

Size 5	Top . . . 12 ins. Bottom . . . 10 ins. High . . . 12 ins.
Weight per 100	Regular 30 lbs. Heavy 70
100 . . . \$5.00	1000 . . . \$47.50
100 . . . \$6.25	1000 . . . \$60.00

500 of a size takes 1000 rate in sizes 0-1-2-3-4. Regular-weight pots packed 100 and 200 per carton in sizes 1-2-3-4. Size 0, 250 only. Heavy pots are packed 250 per carton in size 0; 100 per carton in size 1; 50 per carton in sizes 2, 3 and 4 and 20 per carton in size 5. NO BROKEN CARTONS.

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MICHIGAN	E. C. Geiger, North Wales, Pa.
RHODE ISLAND	New Jersey Farm Supply, 449 Market St., East Paterson, N. J.
CANADA	William Bell, 4002 Montgomery Ave., Detroit, Mich.
	American-Dutch Trading Co., Inc., P. O. Box 177, Cranston 10, R. I.
	The Sheridan Nurseries, Ltd., Sheridan, Ontario, Canada.

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Phone Ludlow 4444

to maintain than some may believe.

The other article, "The Personal Touch," strikes home, too, for we are strong believers in it, as the enclosed postal cards will indicate.

L. S. MacRobbie, Pres.,
Oak Park Nurseries, Inc.

Editorial note: The cards enclosed with Mr. MacRobbie's letter cover several important phases of customer contact, all in the nature of follow-ups to previous contacts. The 2-cent government postal card, with the message neatly printed in green ink, is used in each case. Accent is placed on the firm's intention to be of service, while the cooperation of the customer is asked. The objectives are considered sufficiently important in a couple of instances to warrant the sending of more than one card on the same subject.

Two follow-ups are sent to quicken answers to quotations made by the firm, the first providing a reminder of the date of the quotation and materials desired and offering to give further information if necessary. A second card gives assurance of the firm's reputation and again asks the customer to make a prompt decision about his ordering.

Converting prospective customers to active buyers is a program to which three cards are given, each continuing a sales job. In the order they are sent they read as follows:

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PLANT BUYERS GUIDE — \$7.50 per copy postpaid.

Tells where to buy over 50,000 different plants and seeds.

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Green's tractor hoe will save you time and money. One man can do the work of many. Fits most makes of tractors.

Send for free literature.

HOWARD C. GREEN

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PLANT EATS POT

FERTO-GERM. Compost, Manure	Per ton C.L.
MULCHNUR, 3-6-3 All Organic	\$ 48.00
BONE MEAL RAW INT.	60.00
GARBAGE TANKAGE, 3 1/2 per cent Am.	18.00
SE-BO-PHOS, 20 per cent T.P. Acid.	18.00
FEATHER TANKAGE, 17 per cent Am.	150.00

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ALLEN CO., PITTSBURY 3, N. J.



A Rewarding Side-Line or Profitable Full-Time Business Can Be YOURS.

MANUFACTURE ATTRACTIVE, EVERLASTING CONCRETE LAWN AND GARDEN SPECIALTIES

A few easy-to-operate CMC ALUMINUM MOLDS—honored as the Industry's BEST—and YOU are in the business.

Get in production for BIG BUSINESS!

Write for illustrated catalog.

CONCRETE MACHINERY CO.

Dept. AN
HICKORY, N. C.



MAY 1, 1955

89

your name on our mailing list of prospects. If you'd give us the opportunity of changing that card to our customer list, we think we'd be doing each other a service. A postcard, phone call or visit from you is all it will take. Our representative is ready to help you. No obligation, of course. May we hear from you soon?

No. 2

It's been quite a while now since we started hoping you'd become a customer of ours. Won't you give us the chance to prove that Oak Park trees and shrubs are grown better, that Oak Park service is better, and that the combination spells more satisfaction for you? Why not visit us? No obligation, of course. Do it today!

No. 3

We're still hoping that you're going to give us a chance to serve you. Let us show you why Oak Park trees and shrubs don't have to have apologies made for them. They're tops in quality—grown right, handled right, for maximum satisfaction. Won't you "start the ball rolling" by visiting us soon? Or write or phone us. Our representative is ready to help you. No obligation, of course. Do it now.

Two other cards which the Oak Park Nurseries find useful are enclosure types. One, the only one printed as a business reply card, is sent after an order has been handled. Appreciation for the order is expressed and then space is provided for comments, favorable or otherwise, about stock and service.

An enclosure card is also used to invite customers to give the company the names of prospective users of nursery products or services. There is space on the card for three names and addresses, a "Thank you" and a promise to serve the friends well.

NORTH JERSEY MODEL OF SECTIONAL ASSOCIATION

As historian of the North Jersey Metropolitan Nurseryman's Association, I should like to supplement Secretary Edward S. Wyckoff's report of our recent annual meeting, celebrating our twentieth anniversary. The thought occurred to me that in those areas where nurserymen's associations are having difficulty with attendance, they might take some pointers from the pages of our history.

We meet the third Thursday of each month. I believe the fact that we are sectional contributes to our success and attendance, for we concentrate in Passaic, Bergen and Essex counties, meeting in the offices of the county agricultural agents, with whom we work closely. Through them much of the educational part of our program is arranged.

We have come far since 1935, when 14 nurserymen met and we had to run a dark horse to raise

Cloverset Pots are now shipped

FOLDED and STACKED, READY TO USE

Yes, the good "old stand-by" of thousands of nurserymen has been improved once again. Now, with bottom tabs folded in at the factory before shipment, Cloverset pots offer EVERY advantage for profitable cash-and-carry sales: Low cost, wide size range, easy handling in potting shed and salesyard, adequate root-area with proper drainage, neat appearance and simple removal for transplanting without disturbing roots or soil ball. No more bother of knocking-out, can-cutting or wrapping-up when you switch to time-saving, money-making Cloverset pots for all your potted stock.

Order now — be ready
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TO HELP YOU
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STOCK... Cloverset
newspaper mats and
cultural directions
folders prepared
especially for your use. Ask
for full information!

USE THIS COUPON
FOR SAMPLES AND
INFORMATION — OR
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TODAY



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Exclusive Eastern Distributor: Moorestown
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Please send items checked. I enclose _____ c.

- ☐ Sample set of 5 pots at 50c (limit one set).
☐ Prices and complete information about pots, potting aids and advertising helps.

Name _____

Firm _____

Address _____

City _____ Zone _____ State _____

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Moisture-resistant labels, plain or printed, single or sheets for typewriter use. Wide variety, lowest prices. Shipping tags, color broadsides, catalogs, price lists, order blanks, order books, stock records, gummed labels, blotters, salesbooks, distinctive stationery.

Letterpress and offset printing. Write for free samples and prices.

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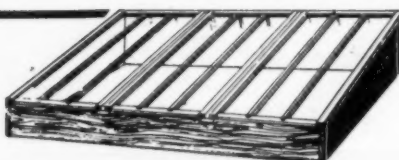
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Send for samples today.

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(Formerly American-Dutch Burlap Co.)
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These Redicut Hotbeds are made of No. 1 Pecky Cypress full 1 in. thick. The back is 18 ins. high; the front is 12 ins. high; the ends slope (see drawing above). Easy to install. The sash will slide down or up for ventilation.

Made in the following sizes:

	Complete with Glazed Sash and Rafters	Add for Automatic Electric Heating Unit
3 x 4 feet.....	\$15.00	\$17.56
6 x 4 feet.....	25.00	22.28
9 x 4 feet.....	36.00	22.28
12 x 4 feet.....	44.00	29.74
16 x 4 feet.....	55.50	29.74
6 x 6 feet.....	33.10	22.28
9 x 6 feet.....	47.90	29.74
12 x 6 feet.....	60.45	34.46
15 x 6 feet.....	75.25	58.82
18 x 6 feet.....	87.80	58.82

Now you can grow plants all winter and root cuttings fast for a few cents a day with thermostatically controlled, invigorating, uniform heat so necessary for optimum growth. Lead-covered cable and automatic thermostat by General Electric. Satisfaction guaranteed. Heating units can be purchased separate for your present hotbeds. You will be amazed with results. Catalog No. 155 gives detail information.

YOH & HOOKER GREENHOUSE CO.
YOUNGSTOWN, O.

**THE MODERN, CLEAN AND
EASY WAY OF GROWING
AND MARKETING PLANTS
MORE PROFITABLY**

BUSH BANDS-PLANT TRAYS PERENNIAL POTS and FLATS

Save Time • Save Labor • Save Money
• Last Longer • Avoid Waste • Get
Faster and Better Growth • Increase
Sales



Bush Plant Bands are lighter to
handle. Easily opened — hold
more soil.

Bush Plant Trays are
easy to set up and fill.
Splendid for retail sales.



YOU will save money with Bush Bands, Trays, Perennial Pots and Flats because they give you longer wear, better service and customer satisfaction. Made with our own specially treated, decay-resisting veneer. This treatment is a Bush exclusive special process. Write today for full information and prices.

Samples on Request—State Size

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To Increase Your Sales of Evergreens, Shade Trees, Flowering Shrubs, Landscape Service, Plants, Roses, etc.

For Newspaper

You get top-notch art work and strong headings—with space for your own seasonable copy and prices.

Ready for You

To insert in your local paper—for quick results.

**ENTIRE COLLECTION
20 MATS**

**MONEY-BACK
GUARANTEE
ORDER
NOW!**

\$16.95

The art work and engraver's cost alone would be many times the price we are asking—if you had your own mats made!



Each mat can be rearranged to fit your advertising needs without extra cost to you. Order now—give your ads that *personal* look.

Money-Back Guarantee.

ORDER FROM

OZARK PLANT FARMS

1730 S. Glenstone
SPRINGFIELD, MO.

Aluminum Plant Tags



Write for sample and prices.

ALLEN WEATHERPROOF TAG CO.
Box 451 SPRINGFIELD, O.

funds to cover postage, until today we have 62 members, with a satisfactory treasury. A revolving fund is set aside to buy tools cooperatively, so that the smaller nurserymen in the association may enjoy the advantage of volume purchases along with the larger nurserymen.

Our cooperative program started back in F. H. A. days, when we completely landscaped a model home, from shrubs to sod. The F. H. A. shows in the armory, the flower show at Bamberger's department store at Newark, the nurserymen's floats in parades and the cooperative planting of the Passaic and Bergen county courthouses followed.

Assistance has been rendered to individual members who have met with misfortune. Cooperative advertising on the radio, publication of "Garden Craft" and garden calendars, displaying of association emblems on trucks and at the nurseries of our members are publicity activities. Our latest program is to make an annual appropriation from association funds to build an arboretum in both Passaic and Bergen counties.

At each meeting there is generally a speaker who offers hints and helpful information pertaining to our trade. Summer educational tours have been made to the Arnold Arboretum at Jamaica Plain, Mass., and to Washington, D. C., where Dr. R. P. White, executive secretary of the American Association of Nurserymen, arranged an informative tour. We also make periodic tours to members' nurseries to take mental note of the location of wanted stock within the association.

There is much more that has slipped my mind about our accomplishments, but we have enjoyed much success in the twenty years of association. We believe that in many areas in the country sectional associations will contribute to the trade's success, as well as strengthen the state and national associations.

William H. Hallicy

SIPES GARDENS, Topeka, Kan., held open house March 19 and 20 to celebrate the remodeling and enlargement of the office and store. The new building was designed by Oran Sipes, owner of the nursery. Mr. Sipes grows bedding plants, perennials and vegetable plants and handles nursery stock at retail. The new garden store has a full line of bulbs, seeds and supplies. Open-house activities included the showing of special sound films and a series of planting demonstrations. Associated with Mr. and Mrs. Sipes in the business is their son, Robert Sipes.